

THERE IS A BONNEY WRENCH FOR EVERY PURPOSE

CATALOG
of
BONNEY
Wrenches
and
Tools
with
HANDY
DATA
for
Mechanics



CATALOG
No. 134

BONNEY
FORGE and TOOL WORKS
Allentown, Pa., U.S.A.

PLEASE SAVE THIS CATALOG



Useful and Convenient

Catalog and Data Book for Mechanics

THIS very handy Data Book and Catalog should be kept in your tool kit or in a convenient place for use by all the mechanics in the shop. It contains valuable reference data throughout as well as on pages 42 to 48. This information was published for your benefit . . . you will find it useful.

BONNEY 'CV' Chrome-Vanadium and ZENEL WRENCHES

No mechanic's tool kit is complete without an ample assortment of Bonney Wrenches and Tools. They are correctly designed, are made of **ZENEL** or *Chrome-Vanadium* Steel and embody the highest type of workmanship. You'll find they do the job quicker and better.

Bonney 'CV' *Chrome-Vanadium* Wrenches are the original alloy steel wrenches. They were developed and pioneered by Bonney. **ZENEL** Wrenches are by far the hardest tough Wrenches on the market . . . they have no equal. Bonney Screw Drivers, Punches, Chisels, Hammers and other tools are also well known for the exceptional service they give. "Buy Bonney and Buy the Best" and don't forget "There is a Bonney Wrench for Every Purpose".

A COMPLETE LINE OF SPECIAL WRENCHES

Bonney takes pride in its line of Special Wrenches. It contains a wrench for almost every job on which a special wrench is required. Special Wrenches for Ford and Chevrolets are shown on pages 32 and 33. Miscellaneous Special Wrenches on pages 34 and 35. We invite any mechanic, who requires a special wrench that is not listed, to write direct to the factory giving full information.

MECHANICS' NET PRICES SHOWN IN CATALOG

The prices shown throughout this catalog are prices to dealers and to those engaged in operating garages and general repair shops. Mechanics known to the trade can obtain these prices.

Prices are subject to change without notice. Your jobber carries these items in stock or can obtain them on short notice. If there is no Bonney jobber in your territory order from the factory.

THE BONNEY GUARANTEE

Bonney Wrenches and Tools are guaranteed against defects in workmanship or material. Made better they last longer.

LOOK FOR THE ZENEL LABEL

Every Bonney **ZENEL** Wrench carries the label shown at the right. Look for it . . . it is your guarantee of superior service . . . of the best in Wrenches.



'CV' Chrome-Vanadium WRENCHES

All Bonney *Chrome-Vanadium* Wrenches have the 'CV' trade mark stamped on them. When you buy a wrench with 'CV' stamped on it you can be sure you are getting full value for your money.



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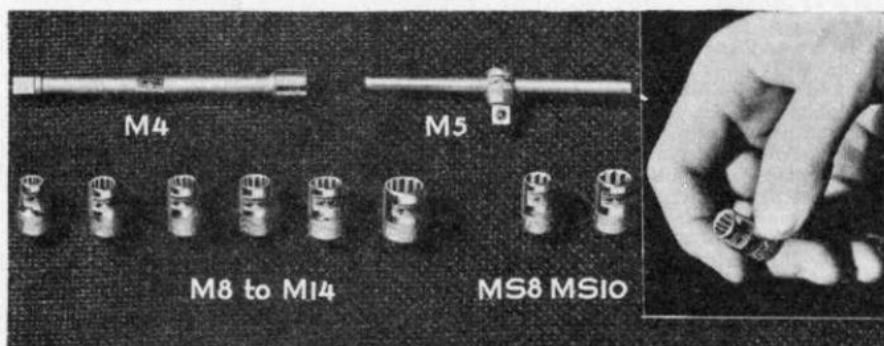
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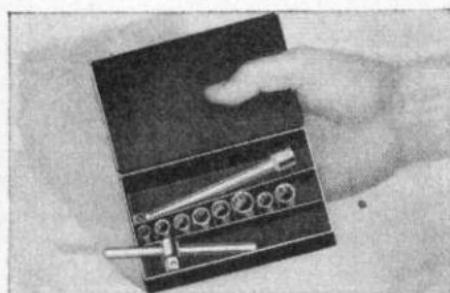
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EXTRA-SMALL SOCKET SERIES $\frac{3}{32}$ inch Square Drive

Very small sockets are often desirable on jobs in restricted quarters . . . such as on magnetos, generators, carburetors, radios and wiring connections. Bonney *Extra-Small* Sockets and Handles are popular on such work. The Sockets have thin walls, accurate double-hexagon openings and are strong and light in weight. They are made of *Chrome-Vanadium* Steel and are Chrome-plated.

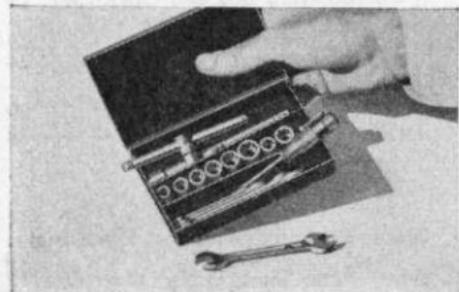
EXTRA-SMALL SERIES SOCKETS and HANDLES

DOUBLE-HEXAGON			DOUBLE-SQUARE			HANDLES		
No.	Opening	Net Price	No.	Opening	Net Price	No.	Description	Net Price
M8	$\frac{1}{4}$ " Dble-Hex.	\$0.25	MS8	$\frac{1}{4}$ " Double-Square	\$0.25	M4	Extension 4 $\frac{1}{2}$ " Long	\$0.60
M9	$\frac{9}{32}$ " Dble-Hex.	.25				M5	Sliding T. 4" Long	.60
M10	$\frac{5}{16}$ " Dble-Hex.	.25	MS10	$\frac{5}{16}$ " Double-Square	.25			
M11	$\frac{11}{32}$ " Dble-Hex.	.25						
M12	$\frac{3}{8}$ " Dble-Hex.	.25						
M14	$\frac{7}{16}$ " Dble-Hex.	.25						

EXTRA-SMALL SOCKET SET No. ES

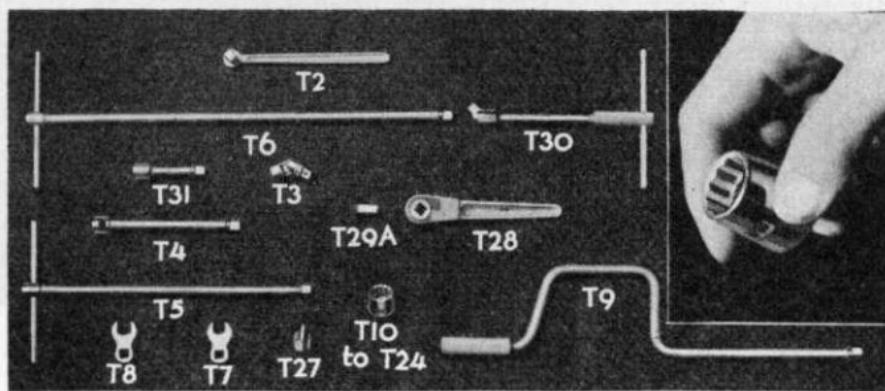
Small . . . strong . . . and very useful. This set of *Extra-Small* Sockets and Handles is a handy "little helper". Used on magnetos, generators, carburetors, radios, wiring connections and similar jobs. The No. ES Set contains the six double-hexagon Sockets and two double-square Sockets listed above. Also an M4 Extension and M5 Sliding "T" Handle. Packed in a neat, compact metal box.

NET PRICE \$3.30

EXTRA-SMALL SOCKET and WRENCH SET No. ES1

A very complete set for electrical work and on jobs where small tools are required. Used in aviation work. The No. ES1 Set consists of Nos. M8, M9, M10, M11, M12, M14, MS8 and MS10 *Extra-Small* Sockets, the No. M4 Extension and the M5 Sliding "T" Handle. Nos. H10, H12, H14, H16 and H18 **ZENEL** Miniature Wrenches shown on page 20, and the No. 001 Pocket Size Screw Driver are also included. Packed in a neat metal box, small enough to be easily slipped into the pocket.

NET PRICE \$4.95

SMALL SOCKET SERIES $\frac{3}{8}$ inch Square Drive

No mechanics Tool Kit is complete without an assortment of *Small Series Sockets*. Many jobs on which these Sockets are used can only be done with great difficulty using other types of wrenches. The line is complete, including Sockets, Handles and Attachments. Every piece is correctly designed, and strong and light in weight. Made of *Chrome-Vanadium Steel* and Chrome-plated.

SMALL SERIES HANDLES and ATTACHMENTS

No.	Description	Net Price	No.	Description	Net Price
T2	Offset Handle	\$0.85	T8	Crowfoot Atch., $\frac{3}{16}$ " Opn.	\$0.70
T3	Universal Joint	1.35	T9	Speeder.....	1.15
T4	Extension 6" Long....	.60	T27	Drag Link Socket.....	.45
T5	"T" Handle, 12" Long..	.85	T28	Ratchet Hdle., with Lug	2.15
T6	"T" Handle, 17" Long..	1.20	T29A	Extra Lug for Ratchet..	.30
T7	Crowfoot Attachment, $\frac{1}{2}$ " Opening.....	.65	T30	Hinge Handle.....	1.70
			T31	Extension, 3" Long.....	.45

SMALL SERIES SOCKETS

No.	Opening	Net Price	No.	Opening	Net Price
T10	$\frac{5}{16}$ " Double-Hexagon ..	\$0.40	T18	$\frac{9}{16}$ " Double-Hexagon...	\$0.40
T12	$\frac{3}{8}$ " Double-Hexagon ..	.40	T20	$\frac{5}{8}$ " Double-Hexagon...	.40
T14	$\frac{11}{16}$ " Double-Hexagon ..	.40	T22	$1\frac{1}{16}$ " Double-Hexagon...	.45
T16	$\frac{1}{2}$ " Double-Hexagon ..	.40	T24	$\frac{3}{4}$ " Double-Hexagon...	.45

SMALL SERIES SOCKET SETS Nos. TD, TD1 and TD2

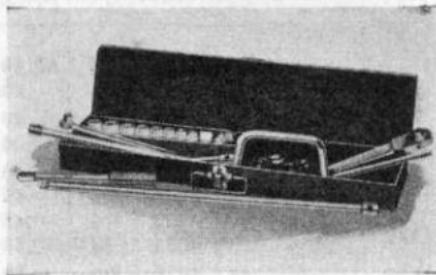
Illustration TD2 Set

The No. **TD** is a fine set for the mechanic who expects to add to this line. It contains five Sockets, Nos. T10 to T20 and handles Nos. T2, T3, T4 and T5.

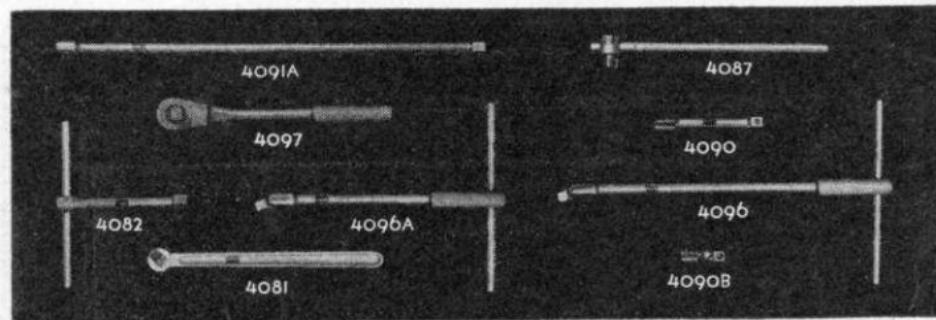
The **TD1 Set** is more complete. In addition to the five Sockets in the TD Set above, it contains handles and attachments Nos. T2, T3, T4, T5 and T28.

If you need a very complete set, the **TD2** is the one you should have. It consists of Sockets T10 to T24, and Handles and Attachments Nos. T2, T3, T4, T5, T6, T9, T28 and T30 also T7, T8 and T27.

All of these sets are packed in metal boxes.

**NET PRICES**

TD Set In Metal Box.....	\$5.60
TD1 Set In Metal Box.....	7.55
TD2 Set In Metal Box.....	14.80

STANDARD SOCKET SERIES **$\frac{1}{2}$ inch Square Drive**

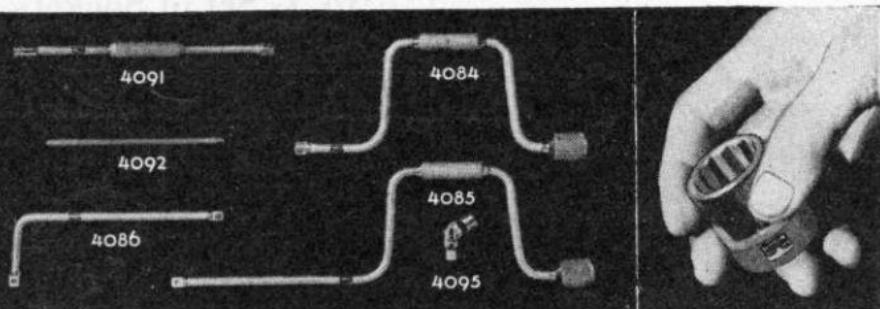
The Bonney *Standard* Socket Series is more than a line of high quality sockets, handles and attachments . . . it is a line that is effective and capable of handling many jobs. The Square, Hexagon, Double-Hexagon, and Straight-Wall Double-Hexagon Sockets provide the mechanic with a socket for almost every job on which a $\frac{1}{2}$ inch square drive should be used. The entire Series is made of *Chrome-Vanadium* Steel, is carefully heat treated and Chrome-plated.

STANDARD SERIES HANDLES and ATTACHMENTS

No.	Description	Net Price	No.	Description	Net Price
4081	Offset Handle	\$1.20	4090B	Extension, 2" long	\$0.60
4082	"T" Handle, 6" long . . .	1.00	4091	Extension, 10" long	1.20
4084	Brace, 13" long	1.50	4091A	Extension, 20" long	1.15
4085	Speeder, 20" long	1.65	4092	Cross Handle for 10" Extension . . . . .	.30
4086	Offset Handle, 10" long . . .	.65	4095	Universal Joint	1.50
4087	Sliding "T" Handle, 11" long	1.10	4096	Hinge Handle 15" long	2.25
4087A	Sliding "T" Handle, 15" long	1.20	4096A	Hinge Handle 10" long	2.10
4090	Extension, 5" long . . . . .	.60	4097	Reversible Ratchet with lug	3.35

STANDARD SERIES SOCKETS

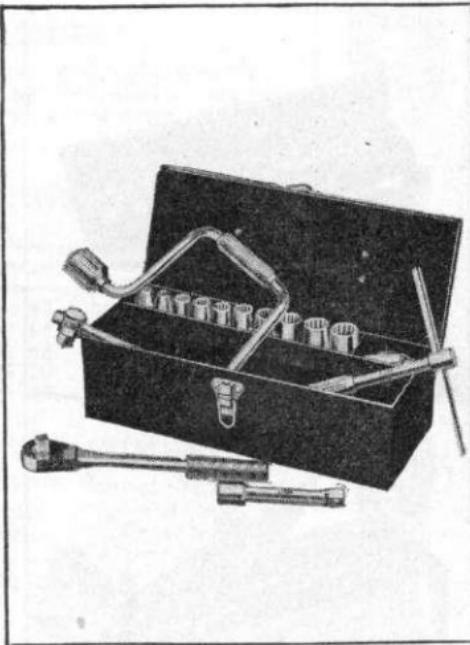
SQUARE			HEXAGON			DOUBLE-HEX.			STR. WALL DOUBLE-HEX.		
No.	Open	Net Price	No.	Open	Net Price	No.	Open	Net Price	No.	Open	Net Price
4112	$\frac{5}{8}$	\$0.40	4014	$\frac{7}{16}$	\$0.40	D14	$\frac{7}{16}$	\$0.40	A14	$\frac{7}{16}$	\$0.50
4114	$\frac{7}{16}$	.40	4016	$\frac{3}{2}$	.40	D16	$\frac{3}{2}$	.40	A16	$\frac{3}{2}$	.50
4116	$\frac{1}{2}$	.40	4018	$\frac{9}{16}$	.40	D18	$\frac{9}{16}$	.40	A18	$\frac{9}{16}$	.50
4118	$\frac{9}{16}$	.40	4019	$\frac{15}{32}$	.40	D20	$\frac{5}{8}$	.40	A19	$\frac{15}{32}$	.50
4120	$\frac{5}{8}$	.40	4020	$\frac{5}{8}$	.40	D21	$\frac{21}{32}$	.40	A20	$\frac{5}{8}$	.50
4122	$\frac{11}{16}$	.45	4021	$\frac{31}{48}$	.40	D22	$\frac{11}{16}$	.45	A22	$\frac{11}{16}$	.50
4124	$\frac{3}{4}$	.50	4022	$\frac{11}{16}$	.45	D24	$\frac{3}{4}$	.50	A24	$\frac{3}{4}$	.60
4128	$\frac{7}{8}$	.50	4024	$\frac{3}{4}$	.50	D25	$\frac{25}{32}$	.50	A25	$\frac{25}{32}$	.60
4132	1	.65	4025	$\frac{25}{32}$	.50	D26	$\frac{15}{16}$	.50	A26	$\frac{15}{16}$	.60
			4026	$\frac{15}{16}$	.50	D28	$\frac{7}{8}$	.50	A28	$\frac{7}{8}$	.60
			4028	$\frac{7}{8}$	.50	D30	$\frac{15}{16}$	.60	A30	$\frac{15}{16}$	.65
			4030	$\frac{15}{16}$	.60	D31	$\frac{21}{32}$	.60	A31	$\frac{21}{32}$	.65
			4031	$\frac{31}{48}$	.60	D32	1	.60	A32	1	.65
			4032	1	.60	D34	$\frac{11}{16}$	.65			
						D36	$\frac{1}{2}$	.75			
						D40	$\frac{1}{4}$	.80			

STANDARD SERIES SOCKET SETS **$\frac{1}{2}$ inch Square Drive****Sets Nos. W, WD, WS and R, RD and RS****Nos. W, WD and WS**

These Sets were assembled expressly for mechanics who want to add to their line or later build a more complete set. Very practical and useful. They contain a Reversible Ratchet, Sliding T, Brace, 5 inch Extension, 10 inch Extension, a Universal Joint and ten Hexagon, Double Hexagon or Straight Wall Double-Hexagon Sockets. The Sockets range from $\frac{1}{16}$ inch to $\frac{1}{2}$ inch (except $2\frac{1}{2}$ inch). These sets are packed in enameled cases equipped with a handle so that they may be easily carried from place to place. Weight per set 10 lb.

NET PRICES

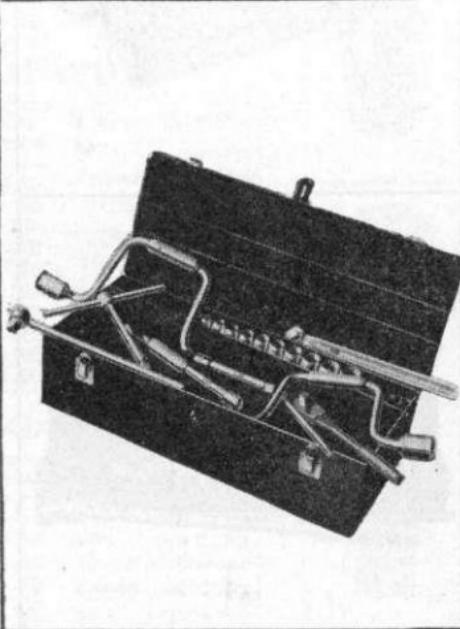
W (Hexagon Sockets)	\$14.40
WD (Double-Hex. Sockets)	14.40
WS (Straight-Wall Double-Hexagon Sockets)	15.25

**Nos. R, RD and RS**

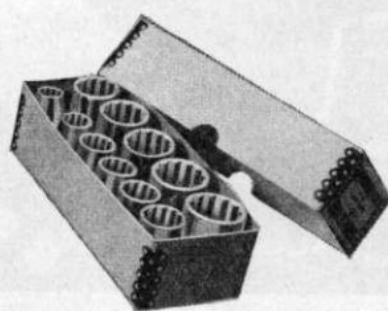
The Bonney R, RD and RS sets are complete sets of the *Standard* Socket Series. They contain one each of the following Sockets, Handles and Attachments; Offset Handle Reversible Ratchet, Sliding T, 6 inch T, 12 inch T, Brace, Speeder, 5 inch Extension, 12 inch Extension, a Universal Joint and ten Sockets ranging in size from $\frac{1}{16}$ inch to $\frac{1}{2}$ inch (except $2\frac{1}{2}$ inch). Packed in strong, nicely finished Metal Boxes. Each set weighs 17 lbs.

NET PRICES

R (Hexagon Sockets)	\$18.65
RD (Double-Hex.Sockets)	18.65
RS (Straight-Wall Double-Hexagon Sockets)	19.50



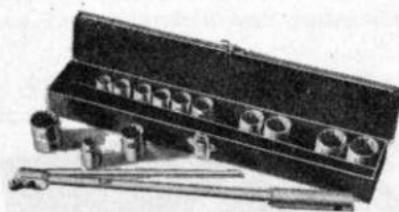
STANDARD SERIES SOCKET SETS



No. G Set of Sockets

An excellent assortment of double-hexagon Sockets for mechanics who want to replace or build up their present line. Used on all standard series $\frac{1}{2}$ inch square drive attachments and handles. Contains one each of Standard Series Sockets Nos D14, D16, D18, D19, D20, D22, D24, D25, D26, D28 and D30. Packed in Cardboard Box.

NET PRICE.....\$4.55

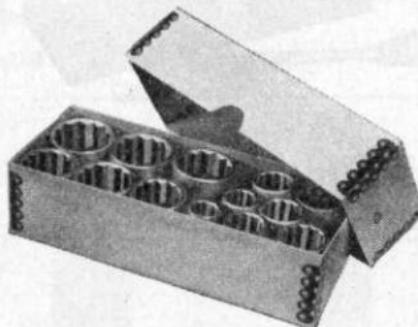


No. D2 Socket Set

Many mechanics who are not ready to buy a more complete socket set will find the D2 Set extremely practical. It consists of 13 double-hexagon Sockets Nos. D14 to D32 (except D31) having openings ranging from $\frac{7}{16}$ " to 1 inch. (except $1\frac{1}{4}$ inch) It also contains a No. 4096 Hinge Handle. Sockets and Handles have $\frac{1}{2}$ inch square drive.

NET PRICES

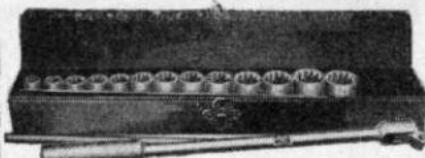
In Cardboard Box.....\$7.50
In Metal Box.....8.50



No. A1 Set of Sockets

If you are looking for additional sockets to get into tight places, here's your set. It consists of 13 thin, straight wall Sockets with double-hexagon openings. The Sockets included are Nos. A14, A16, A18, A19, A20, A22, A24, A25, A26, A28, A30, A31 and A32, with openings of $\frac{7}{16}$ ", $\frac{1}{2}$ ", $\frac{9}{16}$ ", $1\frac{1}{16}$ ", $\frac{5}{8}$ ", $1\frac{1}{16}$ ", $\frac{3}{4}$ ", $1\frac{1}{16}$ ", $1\frac{1}{16}$ ", $\frac{7}{8}$ ", $1\frac{5}{16}$ ", $1\frac{1}{16}$ " and 1" respectively. All have $\frac{1}{2}$ inch square drive. Packed in cardboard box.

NET PRICE.....\$6.65



No. A2 Socket Set

This convenient set of Standard series straight-wall double-hexagon Sockets is ideal for the mechanic who often works in confined places. It consists of thirteen Sockets Nos. A14, A16, A18, A19, A20, A22, A24, A25, A26, A28, A30, A31 and A32. A 4096 Hinge Handle is also included. All have $\frac{1}{2}$ inch square drive.

NET PRICES

In Cardboard Box.....\$8.70
In Metal Box.....9.70

BONNEY SPECIAL SOCKETS

STUD WRENCH

No. 2590 for removing and setting studs. Takes studs from $\frac{5}{16}$ " to $\frac{9}{16}$ ". Has $\frac{1}{2}$ inch square drive. Chrome-Vanadium Steel and Chrome-plated.

NET PRICE \$1.75



CONNECTING ROD SOCKETS for FORD V8

No. F18 Special Socket for adjusting Ford V8 connecting rod bearing cap nuts. Has a $\frac{9}{16}$ " double-hexagon opening and $\frac{1}{2}$ " square drive. Chrome-Vanadium Steel and Chrome-plated.

NET PRICE \$0.55

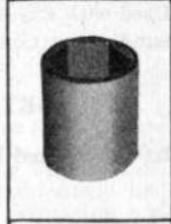


MAIN BEARING SOCKETS for CHEVROLET

No. F22 for 1933 Model center and rear main bearing cap screws. It has an $1\frac{1}{16}$ " hexagon opening.

No. F23 for 1933 Model front main bearing cap screws. Has $2\frac{1}{2}$ " hexagon opening. Both have $\frac{1}{2}$ " square drive. Chrome-Vanadium Steel.

NET PRICE F22 \$0.40 F23 \$0.40



DRAG LINK SOCKETS

No. 4001—Suitable for passenger cars. Width of blade, $1\frac{15}{16}$ ", with $\frac{1}{2}$ " square drive. Net Price \$0.60. No. 4002 for use on trucks. Width of blade, $1\frac{1}{4}$ ", with $\frac{1}{2}$ " square drive.

NET PRICE No. 4002 \$0.80



CROWFOOT ATTACHMENTS

No.	Openings	Net Price
2866	$\frac{1}{2}$ " Double-Hexagon.....	\$0.50
2868	$\frac{9}{16}$ " Double-Hexagon.....	.60
2870	$\frac{5}{8}$ " Double-Hexagon.....	.65
2872	$\frac{11}{16}$ " Double-Hexagon.....	.70
2874	$\frac{3}{4}$ " Double-Hexagon.....	.80

Crowfoot attachments are useful for making adjustments in hard-to-get-at places. Equipped with standard $\frac{1}{2}$ " inch drive.



OPEN-END CROWFOOT ATTACHMENTS

No.	Openings	Net Price
6603	$\frac{5}{8}$ " Open-end.....	\$0.65
6603A	$\frac{9}{16}$ " Open-end.....	.65
6606	$\frac{3}{4}$ " Open-end.....	.75
6606A	$\frac{13}{16}$ " Open-end.....	.75
6606B	$\frac{7}{8}$ " Open-end.....	.75

Special Crowfoot open-end attachments are made of Chrome-Vanadium steel. Designed to be used with handles having $\frac{1}{2}$ " inch standard drive.



MALE and FEMALE ADAPTORS

No.	Openings	Net Price
4296	$\frac{5}{8}$ " Sq. Female & $\frac{3}{4}$ " Sq. Male	\$0.80
4297	$\frac{3}{4}$ " Sq. Female & $\frac{5}{8}$ " Sq. Male	.80
4298	$\frac{1}{2}$ " Sq. Female & $\frac{3}{4}$ " Sq. Male	.80
4299	$\frac{3}{4}$ " Sq. Female & $\frac{1}{2}$ " Sq. Male	.80
4204	$\frac{3}{4}$ " Sq. Female & $\frac{7}{8}$ " Sq. Male	.80
4206	$\frac{1}{2}$ " Sq. Female & $\frac{5}{8}$ " Sq. Male	.80
4208	$\frac{1}{2}$ " Sq. Female & $\frac{5}{8}$ " Sq. Male	.80
4209	$\frac{5}{8}$ " Sq. Female & $\frac{1}{2}$ " Sq. Male	.80
4210	$\frac{7}{8}$ " Sq. Female & $\frac{3}{4}$ " Sq. Male	1.00
4211	$\frac{3}{4}$ " Sq. Female & 1" Sq. Male	1.00

This series of Bonney 'CV' Chrome Vanadium Steel adaptors is designed with square female openings. All have square male drive. They are Chrome-plated.

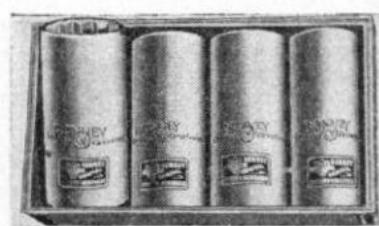


RATCHET HANDLE ADAPTORS

No.	Openings	Net Price
4201	$\frac{1}{2}$ " Square & $\frac{5}{8}$ " Square	\$0.80
4202	$\frac{1}{2}$ " Square & $\frac{3}{4}$ " Square	.85
4203	$\frac{3}{4}$ " Square & $\frac{7}{8}$ " Square	.90
4205	$\frac{5}{8}$ " Square & $\frac{3}{4}$ " Square	.85
4207	$\frac{3}{8}$ " Square & $\frac{1}{2}$ " Square	.80

This series of adaptors is designed for use with Ratchet Handles. Made of Chrome-Vanadium Steel and Chrome-plated.



STANDARD SERIES EXTRA-DEEP SOCKETS

Bonney *Extra-Deep* Sockets find many applications in automotive work and are especially suitable for removing and replacing spark plugs. They have a $\frac{1}{2}$ inch square drive, are $3\frac{1}{4}$ in. long and have Double-Hexagon openings. Made of Chrome-Vanadium Steel and Chrome-plated.

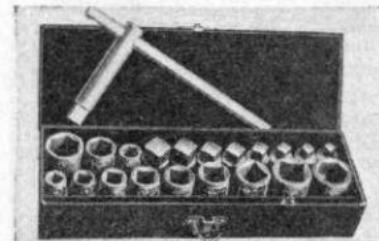
**No. LD SPARK PLUG SET**

Decidedly popular with mechanics. The Set consists of four sockets, Nos. LD26T, LD28T, LD32 and LD36, having openings of $1\frac{5}{16}$ ", $\frac{7}{8}$ ", 1" and $1\frac{3}{8}$ " respectively. Used with any $\frac{1}{2}$ inch square drive handle or attachment.

NET PRICE

In Cardboard Box \$2.85

No.	Openings	Length	Diam.	Net Price
LD16	$\frac{1}{2}$	$3\frac{1}{4}$	$\frac{3}{4}$	\$0.65
LD18	$\frac{9}{16}$	$3\frac{1}{4}$	$1\frac{5}{16}$	.65
LD20	$\frac{5}{8}$	$3\frac{1}{4}$	$\frac{7}{8}$	.70
LD22	$1\frac{1}{16}$	$3\frac{1}{4}$	$1\frac{5}{16}$	.70
LD24	$\frac{3}{4}$	$3\frac{1}{4}$	$1\frac{1}{16}$	.70
LD25	$2\frac{1}{16}$	$3\frac{1}{4}$	$1\frac{1}{16}$	.70
LD26T	$1\frac{5}{16}$	$3\frac{1}{4}$	$1\frac{1}{16}$	.70
LD28	$\frac{7}{8}$	$3\frac{1}{4}$	$1\frac{3}{16}$	.70
LD28T	$\frac{7}{8}$	$3\frac{1}{4}$	$1\frac{3}{16}$	.70
LD30	$1\frac{5}{16}$	$3\frac{1}{4}$	$1\frac{1}{4}$	.80
LD32	1	$3\frac{1}{4}$	$1\frac{3}{8}$	.85
LD32T	1	$3\frac{1}{4}$	$1\frac{9}{16}$	.85
LD34	$1\frac{1}{16}$	$3\frac{1}{4}$	$1\frac{7}{16}$	.85
LD36	$1\frac{1}{8}$	$3\frac{1}{4}$	$1\frac{1}{2}$	.95

No. K SET of DRAIN PLUG SQUARES

No.	Size	Net Price
P10	$\frac{5}{16}$	\$0.40
P12	$\frac{3}{8}$	.40
P14	$\frac{7}{16}$	.40
P16	$\frac{1}{2}$	.45
P18	$\frac{9}{16}$	.45
P20	$\frac{5}{8}$	.45
P22	$1\frac{1}{16}$	.50
P24	$\frac{3}{4}$	.50

Convenient for use on Drain Plugs in crank case, transmission and differential housing of many cars. The K set consists of eight Drain Plug

Squares, eight Square and four Hexagon Sockets, also a T handle. All Squares have $\frac{1}{2}$ " square drive. Packed in Metal Box. NET PRICE \$6.85

CHART of SPARK PLUG SOCKETS for PASSENGER CARS

Make of Car	1932	1933	1934	Make of Car	1932	1933	1934
Auburn (12cyl.)	LD32	LD32		Nash (660,870, 970,1060,1070, 1130 & 960 after 8-1-31)	LD32	LD32	
Auburn(6&8cyl.)	LD36	LD36		Nash (880,1080, 1180, & 960 before 8-1-31)	LD26T	LD26T	
Austin	LD32	LD32	LD32	Nash (6 & 8) Oldsmobile	LD32	LD32	LD26T
Buick (Std.Hd.)	LD28T	LD28T	LD28T	Packard	LD26T	LD26T	LD32
Cadillac	LD32	LD32	LD32	Peerless	LD32	LD32	LD26T
Chevrolet	LD32	LD26T	LD26T	Pierce-Arrow (8 cyl.)	LD36	LD36	LD26T
Chrysler	LD26T	LD26T	LD26T	Pierce-Arrow (12 cyl.)	LD26T	LD26T	LD26T
Continental		LD32	LD32	Plymouth	LD26T	LD26T	LD26T
Cord	LD32	LD32		Pontiac	LD26T	LD26T	LD26T
DeSoto	LD26T	LD26T	LD26T	Reo	LD32	LD32	LD32
DeVaux	LD32			Rockne	LD36	LD32	
Dodge	LD26T	LD26T	LD26T	Studebaker	LD36	LD32	LD32
Essex	LD32			Stutz	LD32	LD32	LD32
Essex(Terrapl.)	LD26T	LD26T	LD26T	Willys	LD32	LD32	LD32
Ford (4 cyl.)	LD36	LD36	LD36	Willys-Knight	LD32	LD36	
Ford (8 cyl.)	LD32	LD32	LD32	Series (66)	LD32	LD36	
Franklin	LD32	LD32	LD32	Willys-Knight (all other models)	LD32T	LD32T	
Graham	LD36	LD36	LD32				
Hudson (6)		LD26T					
Hudson (8)	LD32	LD32	LD26T				
Hupmobile	LD32	LD32	LD32				
LaFayette-Nash							
LaSalle	LD32	LD32	LD32				
Lincoln	LD36	LD36	LD32				
Nash (890, 990, 1090, 1190)	LD28T	LD28T					

The BONNEY 'MC' Bench Set**73 Pieces - The All-Around Mechanics Set**

You'll find Wrenches in it for almost any job that comes into your shop. There are actually hundreds of jobs on which it will speed up your work. The *Small, Standard* and *Heavy Duty* Sockets, Handles and Attachments have been selected to meet your problems, as were the Engineers' Wrenches, the Right-Angle and Box Wrenches, Crowfoot Attachments, Drag Links and other Wrenches and Sockets.

The strong, roomy metal chest has plenty of spare room for the remainder of your tool kit . . . and it can be locked up when you're away. The chest is 12" wide, 9" high and 23½" long . . . the front drops forward so that you can easily reach inside.

NET PRICE Complete \$62.15

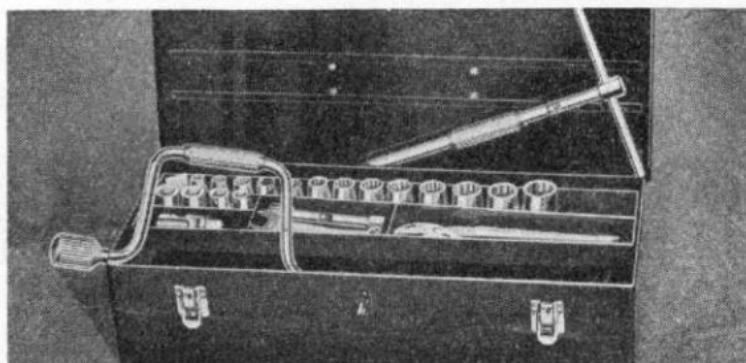
CONTENTS of the 'MC' BENCH SET**HANDLES and ATTACHMENTS****SOCKETS**

No.	Description	Net Price	No.	Description	Net Price
4081	Offset	\$1.20	D26	13½ Double Hexagon	\$0.50
4084	Brace 13"	1.50	D28	7/8 Double Hexagon	.50
4085	Speeder 20'	1.65	D30	15/16 Double Hexagon	.60
4087	Sliding "T"	1.10	D31	31/32 Double Hexagon	.60
4090	Extension 5"	.60	D32	1" Double Hexagon	.60
4091	Extension 10"	1.20	4001	Drag Link 15/16"	.60
4092	Cross Handle	.30	4002	Drag Link 1 1/4"	.80
4095	Universal Joint	1.50	LD26T	Extra Deep 15/16"	.70
4096	Hinge Handle	2.25	LD32	Extra Deep 1"	.85
4097	Reversible Ratchet	3.35	HD34	Heavy Duty 1 1/16"	.80
T2	Offset	.85	HD36	Heavy Duty 1 1/8"	.80
T3	Universal Joint	1.35	HD40	Heavy Duty 1 1/4"	.90
T4	Extension 6"	.60	HD44	Heavy Duty 1 3/8"	.90
T5	"T" Handle 12"	.85	HD46	Heavy Duty 1 1/16"	1.00
T9	Speeder	1.15	HD48	Heavy Duty 1 1/2"	1.00
T30	Hinge Handle	1.70	HD52	Heavy Duty 1 5/8"	1.20
T28	Ratchet	2.15	2866	1/2" Crowfoot Box	.50
4287	Sliding "T"	2.15	2868	9/16" Crowfoot Box	.60
4290	Extension 8 1/2"	1.50	2870	5/8" Crowfoot Box	.65
4291	Extension 17"	1.85	2874	3/4" Crowfoot Box	.80

SOCKETS**WRENCHES**

T12	3/8 Double Hexagon	\$0.40	H10	5/16 & 7/32 Eng.	\$0.30
T14	7/16 Double Hexagon	.40	H12	1/4 & 9/32 Eng.	.30
T16	1/2 Double Hexagon	.40	H14	5/16 & 11/32 Eng.	.35
T18	9/16 Double Hexagon	.40	H16	5/8 & 15/32 Eng.	.35
T20	5/8 Double Hexagon	.40	H18	13/32 & 15/32 Eng.	.35
4114	7/16 Square	.40	1725B	1/2 & 9/16 Eng.	.45
4116	1/2 Square	.40	1727	9/16 & 5/8 Eng.	.55
4118	9/16 Square	.40	1729	5/8 & 3/4 Eng.	.70
D14	7/16 Double Hexagon	.40	1731A	3/4 & 7/8 Eng.	.95
D16	1/2 Double Hexagon	.40	1033C	15/16 & 1 Eng.	1.30
D18	9/16 Double Hexagon	.40	2725B	1/2 & 9/16 R. Angle	.45
D19	19/32 Double Hexagon	.40	2727	9/16 & 5/8 R. Angle	.55
D20	5/8 Double Hexagon	.40	2804	3/8 & 7/16 D. H. Box	.70
D21	21/32 Double Hexagon	.40	2805	1/2 & 9/16 D. H. Box	.75
D22	11/16 Double Hexagon	.45	2807	5/8 & 3/4 D. H. Box	1.10
D24	3/4 Double Hexagon	.50	2809	7/8 & 15/16 D. H. Box	1.35
D25	25/32 Double Hexagon	.50			

No. B SOCKET and WRENCH SET

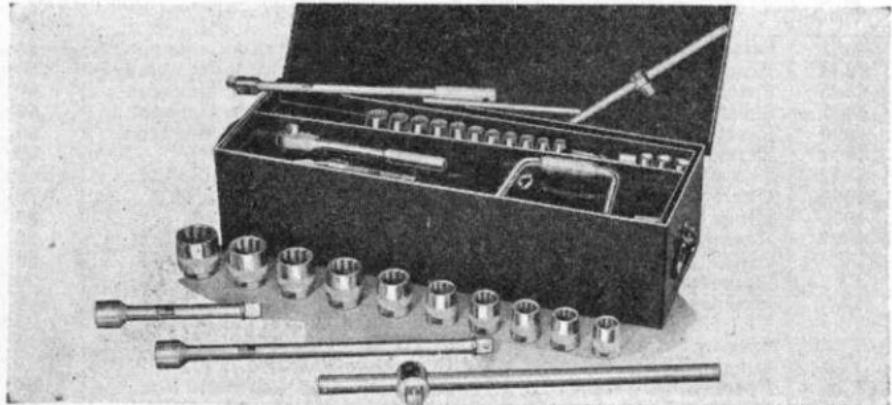


An excellent tool kit for busy mechanics. Each of the thirty pieces has been carefully selected to do the greatest number of jobs. Contains an assortment of ZENEL TuType Wrenches and Chrome-Vanadium Sockets, Handles and Attachments also a Water Pump Plier. Packed in a strong Metal Box.

NET PRICE (complete) \$24.80

No.	Description	Net	No.	Description	Net
D14	Socket (Double-Hex.) $\frac{7}{16}$ "	\$0.40	4120	Socket (Square) $\frac{5}{8}$ "	\$0.40
D16	" " $\frac{1}{2}$ "	.40	4001	" (Drag Link)	.60
D18	" " $\frac{9}{16}$ "	.40	4085	Speeder, 20" long	1.65
D19	" " $\frac{19}{32}$ "	.40	4090	Extension, 5" long	.60
D20	" " $\frac{5}{8}$ "	.40	4091	" 10" long	1.20
D21	" " $\frac{21}{32}$ "	.40	4092	Cross Handle	.30
D22	" " $\frac{11}{16}$ "	.45	4095	Universal Joint	1.50
D24	" " $\frac{3}{4}$ "	.50	4096	Hinge Handle, 15" long	2.05
D25	" " $\frac{25}{32}$ "	.50		without cross handle	
D26	" " $\frac{13}{16}$ "	.50	4097	Reversible Ratchet	
D28	" " $\frac{7}{8}$ "	.50		with lug	
D30	" " $\frac{15}{16}$ "	.60	3114	TuType Wrench $\frac{7}{16}$ "	.65
D32	" " 1"	.60	3116	" " $\frac{3}{2}$ "	.75
4114	Socket (Square)	.40	3118	" " $\frac{9}{16}$ "	.85
4116	" " $\frac{3}{2}$ "	.40	3120	" " $\frac{5}{8}$ "	.95
4118	" " $\frac{9}{16}$ "	.40	2570	Water Pump Plier	1.45

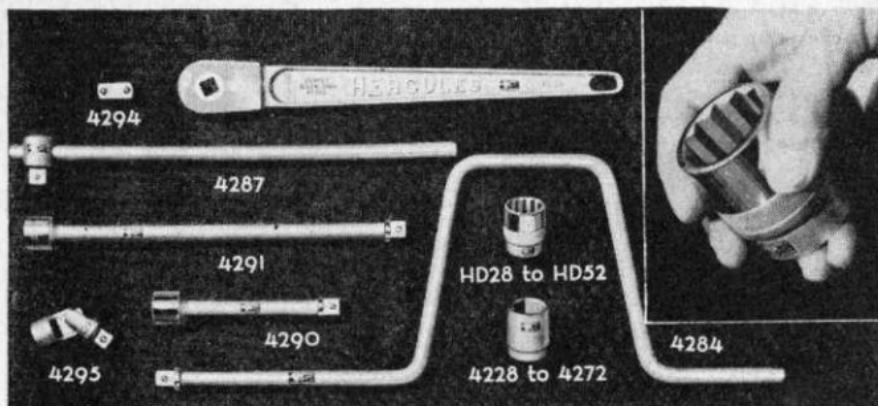
No. RH Standard and Heavy-Duty SOCKET SET



A NEW and very useful set of Standard and Heavy-Duty Sockets, Handles and Attachments. Very convenient for work on buses, trucks, tractors, farm and industrial machinery. Packed in a strong Metal Box with removable tray. Box has extra space to add other sockets and tools.

NET PRICE (Complete) \$33.75

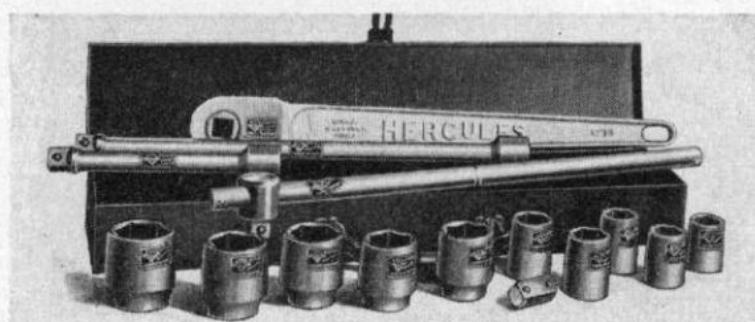
SOCKETS			SOCKETS			HANDLES and ATTACHMENTS		
No.	Standard	Net	No.	H-Duty	Net	No.	Description	Net
D14	$\frac{7}{16}$ " D.H.	\$.40	HD30	$\frac{15}{16}$ " D.H.	\$.65	4001	$1\frac{5}{16}$ " Drag Link Socket	\$.60
D16	$\frac{1}{2}$ " "	\$.40	HD31	$\frac{31}{32}$ " "	.65	4084	Brace, 13" long	1.50
D18	$\frac{9}{16}$ " "	.40	HD32	1"	.65	4087	Sliding T Hdle. 11" long	1.10
D19	$\frac{19}{32}$ " "	.40	HD34	$1\frac{1}{16}$ " "	.80	4090	Extension, 5" long	.60
D20	$\frac{5}{8}$ " "	.40	HD36	$1\frac{1}{8}$ " "	.80	4091	Extension, 10" long	1.20
D21	$\frac{21}{32}$ " "	.40	HD40	$1\frac{1}{4}$ " "	.90	4092	Cross Hdle. for 10" Ex.	.30
D22	$\frac{11}{16}$ " "	.45	HD44	$1\frac{3}{8}$ " "	.90	4095	Universal Joint	1.50
D24	$\frac{3}{4}$ " "	.50	HD46	$1\frac{7}{16}$ " "	1.00	4096	Hinge Handle, 15" long	2.25
D25	$\frac{25}{32}$ " "	.50	HD48	$1\frac{1}{2}$ " "	1.00	4097	Revers. Ratchet with lug	3.35
D26	$\frac{13}{16}$ " "	.50	HD52	$1\frac{5}{8}$ " "	1.20	4287	Sliding T Hdle., 20" long, H-Duty	2.15
D28	$\frac{7}{8}$ " "	.50				4290	Ex. 8 $\frac{1}{2}$ " long, H-Duty	1.50
4114	$\frac{7}{16}$ " Sq.	.40				4291	Ex. 17" long, H-Duty	1.85
4116	$\frac{3}{2}$ " "	.40						
4118	$\frac{9}{16}$ " "	.40						

HEAVY-DUTY SOCKET SERIES $\frac{3}{4}$ inch Square Drive

The Bonney Heavy-Duty Series is favorite among mechanics who repair trucks, tractors and farm machinery. It is also widely used in industrial work. Made of Chrome-Vanadium Steel and Chrome-plated.

HEAVY-DUTY SOCKETS, HANDLES and ATTACHMENTS

HEXAGON			DOUBLE-HEX.			HANDLES and ATTACHMENTS		
No.	Open.	Net Price	No.	Open.	Net Price	No.	Description	Net Price
4228	$\frac{7}{8}$	\$0.60	HD28	$\frac{7}{8}$	\$0.60	4284	Brace	\$3.75
4230	$1\frac{5}{16}$	.65	HD30	$1\frac{5}{16}$	.65	4287	Sliding "T" Hdle. 20" Long	2.15
4231	$1\frac{11}{16}$	.65	HD31	$1\frac{11}{16}$	.65	4290	Extension 8 $\frac{1}{2}$ " Long	1.50
4232	1	.65	HD32	1	.65	4291	Extension 17" Long	1.85
4234	$1\frac{1}{16}$	.80	HD34	$1\frac{1}{16}$	.80	4293	Ratchet Hdle. 20" Long, with Lug	6.65
4236	$1\frac{3}{8}$	.80	HD36	$1\frac{3}{8}$	.80	4294	Extra Lug for Ratchet	.75
4238	$1\frac{5}{16}$	.80	HD38	$1\frac{5}{16}$	.80	4295	Universal Joint	4.55
4240	$1\frac{3}{4}$	.90	HD40	$1\frac{3}{4}$	.90			
4242	$1\frac{5}{16}$	.90	HD42	$1\frac{5}{16}$	.90			
4244	$1\frac{3}{8}$	.90	HD44	$1\frac{3}{8}$	.90			
4246	$1\frac{7}{16}$	1.00	HD46	$1\frac{7}{16}$	1.00			
4248	$1\frac{1}{2}$	1.00	HD48	$1\frac{1}{2}$	1.00			
4252	$1\frac{5}{8}$	1.20	HD50	$1\frac{5}{8}$	1.10			
4254	$1\frac{11}{16}$	1.50	HD52	$1\frac{5}{8}$	1.20			
4256	$1\frac{3}{4}$	1.50						
4258	$1\frac{13}{16}$	1.65						
4260	$1\frac{7}{8}$	1.65						
4264	2	2.00						
4266	$2\frac{1}{16}$	2.35						
4268	$2\frac{3}{8}$	2.50						
4270	$2\frac{5}{16}$	2.70						
4272	$2\frac{1}{4}$	3.00						

Hercules HEAVY-DUTY SOCKETS SETS Nos. H and HD

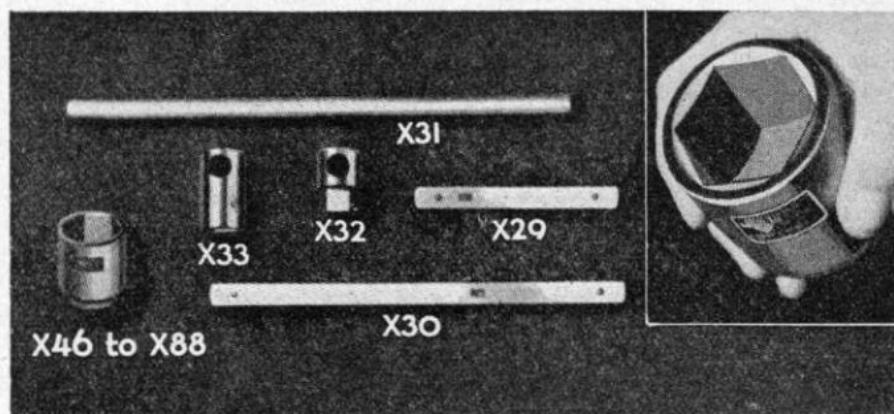
Every mechanic who regularly works on trucks, tractors, farm or industrial machinery should own one of these sets. They make adjustments of large nuts and bolts a "cinch", because they are designed for extremely hard service. Contain ten sockets with openings ranging from $1\frac{5}{16}$ " to $1\frac{3}{8}$ " (except $1\frac{3}{16}$ ", $1\frac{5}{16}$ " and $1\frac{7}{16}$ ") also attachments No's 4287, 4290, 4291 and 4293.

NET PRICES

'H' Set (Hexagon Sockets)	\$20.45
'HD' Set (Double-Hexagon Sockets)	20.45

EXTRA-HEAVY DUTY SOCKET SERIES

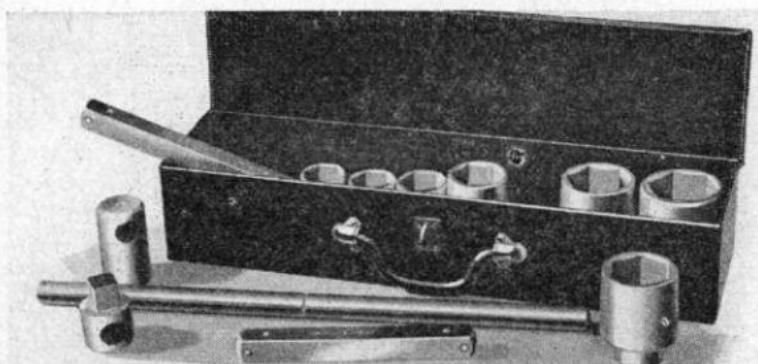
1 inch Square Drive



Designed for work on trucks, buses, tractors and farm machinery. Also used in industrial plants. The Extra Heavy-Duty Socket Series is made of *Chrome-Vanadium Steel* and Chrome-plated. Has 1 inch square drive.

Extra - Heavy Duty SOCKETS, HANDLES & ATTACHMENTS

HEXAGON						No.	Description	Net Price
No.	U.S.S. Bolt Size	S.A.E. Nut & Cap Screws	Am. Std. Bolts & Nuts	Size Opn'g	Net Price			
X46	$\frac{7}{8}$	1	—	$1\frac{7}{16}$	\$1.25	—	—	—
X48	—	—	1	$1\frac{1}{2}$	1.50	X29	Extension 9" Long	\$1.30
X52	1	$1\frac{1}{8}$	—	$1\frac{5}{8}$	1.65	—	—	—
X58	$1\frac{1}{8}$	$1\frac{1}{4}$	—	$1\frac{13}{16}$	2.35	—	—	—
X64	$1\frac{1}{4}$	$1\frac{3}{8}$	—	2	2.70	X30	Extension 18" Long	1.95
X70	$1\frac{3}{8}$	$1\frac{1}{2}$	—	$2\frac{3}{16}$	3.50	—	—	—
X74	—	—	—	$2\frac{5}{16}$	4.00	—	—	—
X76	$1\frac{1}{2}$	—	—	$2\frac{3}{8}$	4.15	X31	Sliding Bar 22" Long	1.00
X78	—	—	—	$2\frac{7}{16}$	5.00	—	—	—
X80	—	—	—	$2\frac{1}{2}$	5.85	—	—	—
X82	$1\frac{1}{8}$	—	—	$2\frac{9}{16}$	6.65	X32	Drive Head (Male)	1.65
X84	—	—	$1\frac{3}{4}$	$2\frac{5}{8}$	7.50	—	—	—
X86	—	—	—	$2\frac{11}{16}$	8.35	—	—	—
X88	$1\frac{3}{4}$	—	—	$2\frac{3}{4}$	9.15	X33	Drive Head (Female)	1.65

EXTRA-HEAVY DUTY SOCKET SET No. XH

The exceptionally large nuts and bolts on trucks, buses, tractors, require heavy duty wrenches. Here is the set for those jobs. Also used in industrial work. Contains seven Hexagon Sockets Nos. X46, X48, X52, X58, X64, X70, X76 with openings of $1\frac{7}{16}$ ", $1\frac{1}{2}$ ", $1\frac{1}{8}$ ", $1\frac{13}{16}$ ", 2", $2\frac{3}{16}$ " and $2\frac{3}{8}$ ". Also includes Attachments Nos. X29, X30, X31, X32 and X33. Box 23" x 5 $\frac{1}{2}$ " x 4 $\frac{1}{2}$ " high. Weight complete, 42 lb.

NET PRICE No. XH SET \$24.95

SOLID SOCKET WRENCHES

Bonney Solid Socket Wrenches are designed to provide the user with a wrench that will remove the most stubborn nut. They are forged in one piece from *Chrome-Vanadium Steel* to give them extra strength. The outside diameters of the Sockets are held down to permit the greatest possible clearance in operation. All have hexagon openings and are Chrome-plated.

OFFSET TYPE

Wrench No.	Hex. Openings	Length	Handle Offset	Net Price
2101	7/16	8	2	\$0.85
2102	1/2	8	2	
2103	9/16	8	2	
2104	19/32	10	2	
2105	5/8	10	2	
2106	11/16	10	2	
2107	3/4	10	2	
2108	25/32	10	2 1/4	
2109	13/16	10	2 1/4	
2110	7/8	10	2 1/4	1.00
2270S	15/16	9 1/8	2 3/16	
2270A	31/32	9 1/8	2 3/16	
2270D	1	9 1/8	2 3/16	1.95
2271A	1 1/16	10	2 3/8	
2271D	1 1/8	10	2 3/8	2.25
2273A	1 1/4	11 5/8	2 3/4	3.00
2274D	1 3/8	12 3/8	2 7/8	3.35
2275A	1 7/16	13 1/4	3 1/8	
2275D	1 1/2	13 1/4	3 1/8	3.75
2276A	1 5/8	14 7/8	3 1/2	4.35
2277A	1 13/16	16 1/2	3 7/8	4.90

"T" TYPE

Wrench No.	Hex. Openings	Extreme Length	Net Price
2201	7/16	12	\$0.95
2202	1/2	12	
2203	9/16	12	
2204	19/32	12	
2205	5/8	12	
2206	11/16	12	
2207	3/4	12	
2208	25/32	12	
2209	13/16	12	
2210	7/8	12	1.20

BRACE TYPE — 20 inches — 2400 Series

Wrench No.	Hex. Openings	Length	Length of Shank	Net Price
2401	7/16	20	10	\$1.40
2402	1/2	20	10	
2403	9/16	20	10	
2404	19/32	20	10	
2405	5/8	20	10	
2406	11/16	20	10	
2407	3/4	20	10	
2408	25/32	20	10	
2409	13/16	20	10	
2410	7/8	20	10	1.60

BRACE TYPE — 30 inches — 2500 Series

2503	9/16	30	20	\$1.75
2505	5/8	30	20	



BOX WRENCHES

The type of jobs on which box wrenches are used requires thin walled openings with great strength. Bonney Box Wrenches meet these requirements. They are strong, light in weight, have panelled handles and are beautifully finished.

SHORT TYPE

Both Ends Offset—Different Openings Each End



Wrench No.	U. S. S. Bolt Size	S. A. E. Standard Screw and Nut	Openings	Length	Net Price
2804	.....	& $\frac{1}{4}$	$\frac{3}{8}$ & $\frac{7}{16}$	$5\frac{1}{8}$	\$0.70
2804A	$\frac{3}{16}$ &	& $\frac{1}{4}$	$\frac{15}{32}$ & $\frac{7}{16}$	$5\frac{1}{8}$	.70
2805	$\frac{1}{4}$ &	$\frac{5}{16}$ & $\frac{3}{8}$	$\frac{1}{2}$ & $\frac{9}{16}$	$5\frac{1}{2}$	.75
2806	.....	$\frac{3}{8}$ & $\frac{7}{16}$	$\frac{9}{16}$ & $\frac{5}{8}$	6	.85

LONG TYPE

Both Ends Offset—Different Openings Each End



Wrench No.	U. S. S. Bolt Size	S. A. E. Standard Screw and Nut	Openings	Length	Net Price
2804L	.....	& $\frac{1}{4}$	$\frac{3}{8}$ & $\frac{7}{16}$	$8\frac{1}{2}$	\$0.90
2805L	$\frac{3}{16}$ &	$\frac{5}{16}$ & $\frac{3}{8}$	$\frac{1}{2}$ & $\frac{9}{16}$	9	.95
2806L	$\frac{1}{4}$ &	$\frac{3}{8}$ & $\frac{7}{16}$	$\frac{9}{16}$ & $\frac{5}{8}$	$9\frac{1}{2}$	1.00
2807	.....	$\frac{7}{16}$ & $\frac{3}{2}$	$\frac{5}{8}$ & $\frac{3}{4}$	$8\frac{1}{2}$	1.10
2808	& $\frac{1}{2}$	$\frac{1}{2}$ & $\frac{9}{16}$	$\frac{3}{4}$ & $\frac{7}{8}$	10	1.25
2809	$\frac{1}{2}$ &	$\frac{9}{16}$ & $\frac{5}{8}$	$\frac{7}{8}$ & $\frac{15}{16}$	$11\frac{1}{4}$	1.35
2810A	& $\frac{9}{16}$	$\frac{5}{8}$ &	$\frac{15}{16}$ & $\frac{31}{32}$	$12\frac{1}{2}$	1.60
2810	.....	$\frac{5}{8}$ & $\frac{11}{16}$	$\frac{15}{16}$ & 1	$12\frac{1}{2}$	1.60
2811B	& $\frac{5}{8}$	$\frac{5}{8}$ & $\frac{3}{4}$	$\frac{15}{16}$ & $1\frac{1}{16}$	$14\frac{1}{2}$	1.75
2811C	.....	$\frac{5}{8}$ &	$\frac{15}{16}$ & $1\frac{3}{8}$	$14\frac{1}{2}$	1.75
2811A	& $\frac{5}{8}$	$\frac{11}{16}$ & $\frac{3}{4}$	1 & $1\frac{1}{16}$	$14\frac{1}{2}$	1.75
2811	.....	$\frac{11}{16}$ &	1 & $1\frac{1}{8}$	$14\frac{1}{2}$	1.75
2812	$\frac{3}{4}$ &	$\frac{7}{8}$ &	$1\frac{1}{4}$ & $1\frac{3}{8}$	$16\frac{1}{2}$	2.25
2812A	$\frac{3}{4}$ & $\frac{7}{8}$	$\frac{7}{8}$ & 1	$1\frac{1}{4}$ & $1\frac{7}{16}$	$16\frac{1}{2}$	2.25
2812C	& $\frac{9}{16}$	& $\frac{7}{8}$	$1\frac{1}{8}$ & $1\frac{1}{4}$	$16\frac{1}{2}$	2.25

LONG TYPE

One End Offset—Same Openings Each End



Wrench No.	U. S. S. Bolt Size	S. A. E. Standard Screw and Nut	Openings	Length	Net Price
2814	.....	$\frac{1}{4}$	$\frac{7}{16}$	8	\$0.80
2816	$\frac{1}{4}$	$\frac{5}{16}$	$\frac{1}{2}$	9	.85
2818	.....	$\frac{3}{8}$	$\frac{9}{16}$	$9\frac{1}{2}$	.90
2820	.....	$\frac{7}{16}$	$\frac{5}{8}$	10	.95
2822	$\frac{3}{8}$	.....	$\frac{11}{16}$	11	1.00
2824	.....	$\frac{1}{2}$	$\frac{3}{4}$	$11\frac{1}{2}$	1.10
2825	$\frac{7}{16}$	.....	$\frac{25}{32}$	12	1.15
2826	.....	.....	$\frac{13}{16}$	12	1.15
2828	$\frac{1}{2}$	$\frac{9}{16}$	$\frac{7}{8}$	$12\frac{3}{4}$	1.30
2830	.....	$\frac{5}{8}$	$\frac{15}{16}$	$13\frac{1}{2}$	1.40
2832	.....	$\frac{11}{16}$	1	15	1.50
2834	$\frac{5}{8}$	$\frac{3}{4}$	$\frac{11}{16}$	$17\frac{1}{2}$	1.65
2836	.....	.....	$1\frac{1}{8}$	$17\frac{1}{2}$	1.85
2839	$\frac{3}{4}$	$\frac{7}{8}$	$1\frac{1}{4}$	$17\frac{1}{2}$	2.05

Bonney Box Wrenches are sold under license of Blackmar Patent No. 1424069.

BOX WRENCH SETS

Set No. 31

Every mechanic should own this set. The six double-end Box Wrenches (one end offset) Nos. 2814, 2816, 2818, 2820, 2822 and 2824 have wide ranges of application. Their openings are from $\frac{1}{16}$ " to $\frac{3}{4}$ ".

NET PRICES

In Cardboard Box.....	\$5.60
In Leatherette Roll.....	6.15

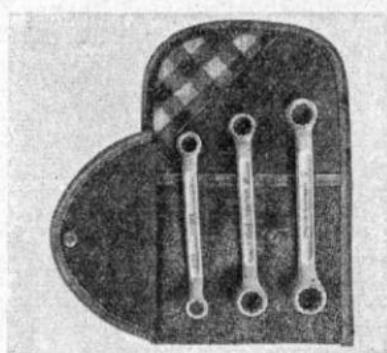


Set No. 29

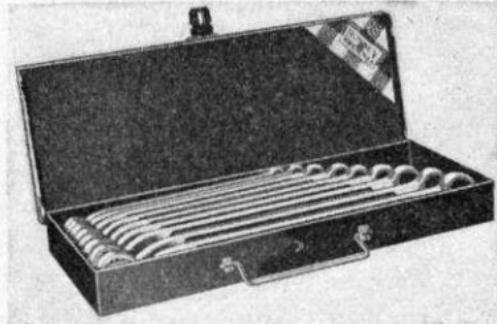
A handy little set. It consists of 3 short double-end Box Wrenches (both ends offset) Nos. 2804, 2805 and 2806. Openings range from $\frac{3}{8}$ " to $\frac{5}{8}$ " and are double-hexagon.

NET PRICES

In Cardboard Box.....	\$2.30
In Leatherette Roll.....	2.60



Set No. 33

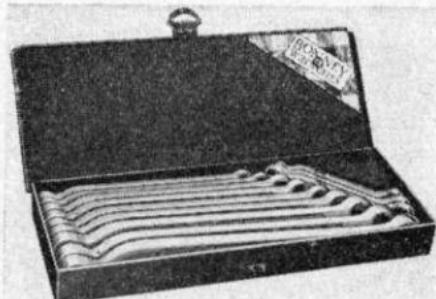


NET PRICES

In Cardboard Box.....	\$9.45
In Metal Box.....	10.80

The six Bonney Box Wrenches in the No. 33 Set fill all the requirements of the mechanic for this type wrench. They have one end offset and the same opening in either end. Nos. 2814, 2816, 2818, 2820, 2822, 2824, 2826, 2828 and 2830 make up the set...openings range from $\frac{1}{16}$ " to $1\frac{15}{16}$ ". All are made of alloy steel and are Chrome-plated.

Set No. 34

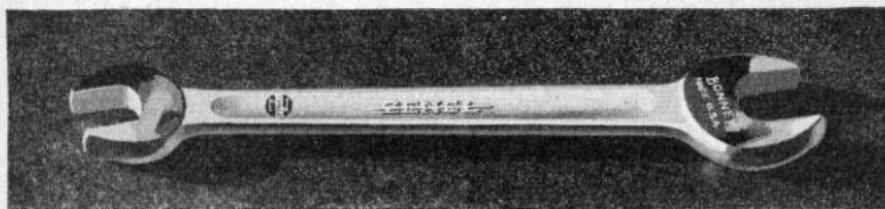


NET PRICES

In Cardboard Box.....	\$11.75
In Metal Box.....	13.10

This trim, compact set of Bonney Box Wrenches is complete and popular. It contains 12 double-end Box Wrenches, 9 of the long type with one end offset and 3 of the short type with both ends offset. All have double-hexagon openings. Their numbers are 2814, 2816, 2818, 2820, 2822, 2824, 2826, 2828, 2830, 2804, 2805 and 2806.

ZENEL ENGINEERS' WRENCHES



Bonney ZENEL Engineers' Wrenches are the strongest wrenches on the market. ZENEL is a new steel developed and used only by Bonney. It is the hardest tough steel used in wrenches, and has great wear-resisting properties. Wrenches made of ZENEL actually outlast two or three wrenches made with ordinary steels.

ZENEL Engineers' Wrenches have panelled handles so that a strong, comfortable grip can be taken. Their heads are narrow and the Wrenches light in weight. They are Chrome-plated and rigidly inspected.

Numbers, Sizes and Prices ZENEL ENGINEERS' WRENCHES

Wrench No.	U.S.S. Bolt Size	Hex. Hd. Cap Screw	S.A.E. Std. Screw and Nut	Openings Milled	Extreme Length	Thickness of Head	Net Price
3721	1/8 & 3/16	1/8 & 3/16	.....	5/16 & 3/8	4 1/4	3/16 { 3/16 }	
3021	1/8 & 3/16	1/8 &	.....	5/16 & 19/32	4 1/4	7/32 { 7/32 }	\$0.45
3723	.....	3/16 & 1/4	.....	3/8 & 7/16	4 3/4	7/32 { 7/32 }	
3723A	& 1/4	3/16 & 5/16	.....	3/8 & 1/2	4 3/4	7/32 { 7/32 }	.50
3023	3/16 & 1/4	3/16 & 5/16	.....	19/32 & 1/2	4 3/4	7/32 { 7/32 }	
3725	& 1/4	1/4 & 5/16	1/4 & 5/16	7/16 & 1/2	5 3/4	1/4 { 1/4 }	
3725B	1/4 &	5/16 & 3/8	5/16 & 3/8	1/2 & 9/16	5 3/4	1/4 { 1/4 }	.60
3025	1/4 & 5/16	5/16 &	5/16 &	3/2 & 19/32	5 3/4	1/4 { 1/4 }	
3727	.....	3/8 & 7/16	3/8 & 7/16	9/16 & 5/8	7	9/32 { 9/32 }	
3027	5/16 & 3/8	.....	.....	19/32 & 11/16	7	9/32 { 9/32 }	.70
3027C	& 3/8	3/8 &	3/8 &	9/16 & 11/16	7	9/32 { 9/32 }	
3028S	& 7/16	7/16 &	7/16 &	5/8 & 25/32	8	5/16 { 5/16 }	
3729	.....	7/16 & 1/2	7/16 & 1/2	5/8 & 3/4	8	5/16 { 5/16 }	.90
3029	3/8 & 7/16	.....	.....	11/16 & 25/32	8	5/16 { 5/16 }	
3731	.....	1/2 & 9/16	1/2 &	3/4 & 13/16	9 1/2	3/8 { 3/8 }	
3731A	& 1/2	1/2 & 5/8	1/2 & 9/16	3/4 & 7/8	9 1/2	3/8 { 3/8 }	
3031	7/16 & 1/2	.....	.....	25/32 & 7/8	9 1/2	3/8 { 3/8 }	1.20
3033A	1/2 &	5/8 &	9/16 & 5/8	7/8 & 15/16	9 1/2	3/8 { 3/8 }	
3033	1/2 & 9/16	5/8 &	9/16 &	7/8 & 31/32	9 1/2	3/8 { 3/8 }	
3733	1/2 &	5/8 & 3/4	9/16 & 11/16	7/8 & 1	11	15/32 { 15/32 }	
3033C	.....	5/8 & 3/4	5/8 & 11/16	15/16 & 1	11	15/32 { 15/32 }	1.50
3034	1/2 & 5/8	5/8 &	9/16 & 5/8	7/8 & 1 1/16	11	15/32 { 15/32 }	
3034A	& 5/8	.....	5/8 & 3/4	15/16 & 1 1/16	11	15/32 { 15/32 }	
3035	9/16 & 5/8	.....	.....	31/32 & 1 1/16	11	15/32 { 15/32 }	

ZENEL ENGINEERS' WRENCH SETS Nos. Z25 and Z26



NET PRICES

Z25 in Cardboard Box.....	\$4.85	3/8" and 7/16", 7/16" and 1/2", 1/2" and 9/16", 1/2" and 19/32", 9/16" and 11/16", 5/8" and 25/32", 3/4" and 7/8" and 15/16" and 1"
Z25 in Leatherette Roll.....	5.40	1/2" and 19/32", 9/16" and 5/8", 5/8" and 3/4", 11/16" and 25/32", 3/4" and 7/8" respectively.
Z26 in Leatherette Roll.....	5.95	11/16" and 25/32", 3/4" and 7/8" respectively.

Mechanics who demand the best from their tools should by all means have a No. Z25 or Z26 ZENEL Engineers' Wrench Set. These super-fine sets contain only the most popular numbers. The Z25 consists of six wrenches, Nos. 3723, 3025, 3027C, 3028S, 3731A, 3033C having openings of 3/8" and 7/16", 1/2" and 19/32", 9/16" and 11/16", 5/8" and 25/32", 3/4" and 7/8" and 15/16" and 1" respectively. The No. Z26 Set is more complete. It contains eight Wrenches, Nos. 3723, 3725, 3725B, 3025, 3727, 3729, 3029 and 3731A with openings of 3/8" and 7/16", 7/16" and 1/2", 1/2" and 9/16", 1/2" and 19/32", 9/16" and 5/8", 5/8" and 3/4", 11/16" and 25/32", 3/4" and 7/8" respectively.

ZENEL TAPPET WRENCHES - 3420 Series



Bonney 3420 Series Tappet Wrenches are made of **ZENEL** . . . the same steel used in the Engineers' Wrenches described on the opposite page. Through the use of **ZENEL** it has been possible to further refine the design of Bonney Tappet Wrenches. They are exceptionally strong and wear resisting . . . are lighter, and have thinner narrower heads. Panelled handles allow the mechanic to take a firm, steady grip when making close adjustments.

Their length ranging from eight inches to $9\frac{1}{2}$ inches allows the mechanic to work clear of the hot motor. The heads are at an angle of 15° and they have different size openings in each end. They are Chrome-plated.

Numbers, Sizes and Prices **ZENEL TAPPET WRENCHES**

Wrench No.	Openings Milled	S.A.E. Standard Screw and Nut	U.S.S. Bolt Size	Extreme Length	Thickness of Head	Net Price
3420A	$\frac{7}{16}$ & $\frac{1}{2}$	$\frac{1}{4}$ & $\frac{5}{16}$	& $\frac{3}{4}$	8	$\frac{5}{32}$	
3420	$\frac{7}{16}$ & $1\frac{7}{32}$	$\frac{1}{4}$ &	.....	8	$\frac{5}{32}$	
3422	$\frac{1}{2}$ & $\frac{9}{16}$	$\frac{5}{16}$ & $\frac{3}{8}$	$\frac{3}{4}$ &	8	$\frac{5}{32}$	
3424B	$\frac{9}{16}$ & $\frac{5}{8}$	$\frac{3}{8}$ & $\frac{7}{16}$	.....	$8\frac{1}{2}$	$\frac{3}{16}$	
3424	$\frac{5}{8}$ & $1\frac{1}{16}$	$\frac{1}{16}$ & $\frac{3}{8}$	& $\frac{3}{8}$	$8\frac{1}{2}$	$\frac{3}{16}$	.85
3424A	$\frac{5}{8}$ & $\frac{3}{4}$	$\frac{7}{16}$ & $\frac{1}{2}$	.....	$8\frac{1}{2}$	$\frac{3}{16}$	
3425	$\frac{3}{4}$ & $1\frac{13}{16}$	$\frac{1}{2}$ &	.....	9	$\frac{7}{32}$	
3426	$\frac{3}{4}$ & $\frac{7}{8}$	$\frac{1}{2}$ & $\frac{9}{16}$	& $\frac{1}{2}$	9	$\frac{7}{32}$	.95
3428	$1\frac{5}{16}$ & 1	$\frac{5}{8}$ & $1\frac{1}{16}$	.....	$9\frac{1}{2}$	$\frac{7}{32}$	1.05

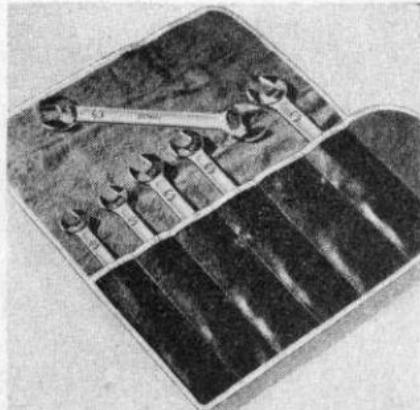
ZENEL TAPPET WRENCH SETS Nos. Z22 and Z23

That mechanics have approved these fine **ZENEL** Tappet Sets is evident from their constantly increasing sale. They handle tappet adjustments on almost every make of car, and because they are made of **ZENEL** will outlast two or three sets of ordinary steel tappet wrenches.

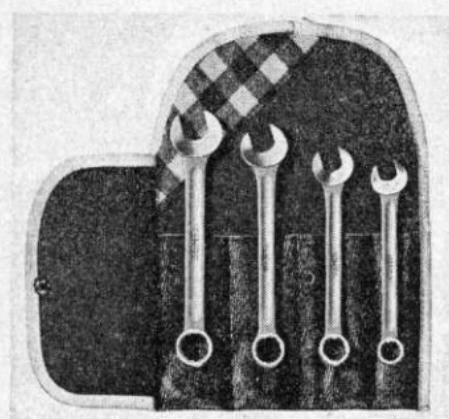
No. **Z22** consists of two each of numbers 3422, 3424 and 3426, having openings of $\frac{1}{2}$ " and $\frac{9}{16}$ ", $\frac{5}{8}$ " and $1\frac{1}{16}$ ", $\frac{3}{4}$ " and $\frac{7}{8}$ " respectively. The No. **Z23** Set is more complete. It contains eight Wrenches, two each of Nos. 3420, 3422, 3424 and 3426. They have openings of $\frac{7}{16}$ ", $1\frac{7}{32}$ ", $\frac{1}{2}$ ", $\frac{9}{16}$ ", $\frac{5}{8}$ " and $1\frac{13}{16}$ ", $\frac{3}{4}$ " and $\frac{7}{8}$ ".

NET PRICES

Z22 In Cardboard Box	\$4.50
Z22 In Leatherette Roll	5.00
Z23 In Leatherette Roll	6.30

**ZENEL—What it is.**

ZENEL is a wrench steel developed by Bonney Engineers and Metallurgists. It is the result of years of research and experimentation and is the toughest, most wear-resisting steel used in wrenches. **ZENEL** Wrenches are practically unbreakable and even under exceptionally severe use, outlast two or three ordinary wrenches.

ZENEL TuType WRENCHES**No. 19 Set**

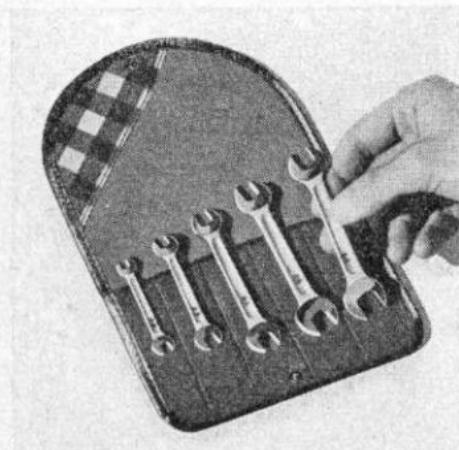
The No. 19 Set is widely used wherever a great many rush jobs are handled. The TuType Wrenches are convenient on such work because they provide the mechanic with both an open end and box wrench in the same tool. Both openings are the same size. The four Wrenches, Nos. 3114, 3116, 3118 and 3120 are listed below. They are made of ZENEL and are Chrome-plated.

NET PRICES

In Cardboard Box	\$2.85
In Leatherette Roll	3.15

ZENEL TuType WRENCHES

Wrench No.	Opening	U. S. S. Bolt Size	Hex. Hd. Cap Screw	S. A. E. Screw & Nut	Length	Net Price
3114	7/16		1/4	1/4	5	\$0.65
3116	1/2	1/4	5/16	5/16	5 3/8	.75
3118	9/16		3/8	3/8	5 7/8	.85
3120	5/8		7/16	7/16	6 1/4	.95

ZENEL MINIATURE WRENCHES**No. 20 Set**

Delicate jobs on magnetos, generators, radios, timers, oil cleaners, carburetors, electrical parts and similar jobs are quickly done with Bonney Miniature Wrenches. The No. 20 Set contains one each of Nos. H10, H12, H14, H16 and H18 listed below. They are made of ZENEL, have paneled handles and are Chrome-plated.

NET PRICES

In Cardboard Box	\$1.65
In Leatherette Roll	1.90

ZENEL MINIATURE WRENCHES

Wrench No.	Openings Milled	Length	Thickness Heads	Net Price
H-10	3/16 & 7/64	2 1/2	3/32	\$0.30
H-12	1/4 & 9/32	3	5/32	.30
H-14	5/16 & 11/32	3 3/4	3/16	.35
H-16	3/8 & 7/16	4 1/8	7/32	.35
H-18	13/32 & 15/32	4 1/8	7/32	.35

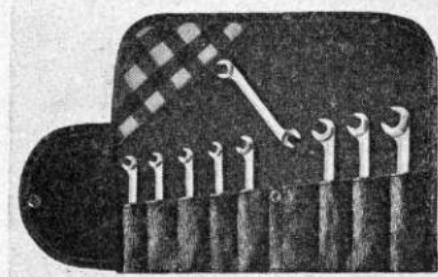
ZENEL ELECTRICAL WRENCHES

No. 16 Set

The heads of Bonney Electrical Wrenches are at an angle of 15° and 60°. This, and because the same openings are provided at both angles, offers the mechanic a very practical line of wrenches. The No. 16 Set contains one each of Nos. E14, E16, E18, E20, E22, E24, E26, E28, and E30. See table below. Made of **ZENEL**. Chrome-plated.

NET PRICES

In Cardboard Box.....	\$3.65
In Leatherette Roll.....	3.95

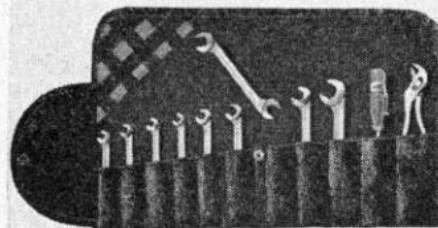


No. 17 Set

In addition to the nine **ZENEL** Electrical Wrenches listed below the No. 17 Set contains a No. 001 Pocket Size Screw Driver and a 2572 Ignition Plier. Used on distributors, magnetos, coils and all ignition systems, also radios and electrical appliances.

NET PRICES

In Cardboard Box.....	\$4.80
In Leatherette Roll.....	5.10



ZENEL ELECTRICAL WRENCHES

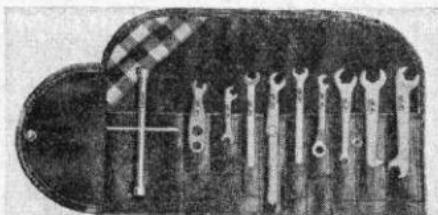
Wrench No.	Openings		Length	Thick- ness	Net Price
	15° End	60° End			
E14	13/64	15/64	3	7/64	\$0.40
E16	15/64	13/64	3	7/64	.40
E18	7/32	3/4	3	7/64	.40
E20	1/4	7/32	3	7/64	.40
E22	9/32	5/16	3 1/2	1/8	.45
E24	5/16	9/32	3 1/2	1/8	.45
E26	11/32	3/8	4	9/64	.50
E28	3/8	11/32	4	9/64	.50
E30	7/16	7/2	4 1/2	5/32	.55

No. 18 IGNITION WRENCH SET

A very handy Ignition Set! Used on all popular ignition systems such as Autolite, Bosch, Delco, Eisemann, Northeast, Remy, Splitdorf, Westinghouse etc. Contains the ten Wrenches, listed in table below.

NET PRICES

In Cardboard Box.....	\$3.60
In Leatherette Roll.....	4.00



INDIVIDUAL IGNITION WRENCHES

Wr'ch No.	Description	Net Price	Wr'ch No.	Description	Net Price
E2	Northeast, Splitdorf Bosch.....	\$0.30	E7	Bosch Du 4 & Du 6, Autolite.....	\$0.40
E3	Eisemann.....	.30	E8	Delco Remy.....	.40
E4	Remy, Wagner.....	.30	E9	Remy Cam.....	.40
E5	Remy, Wagner.....	.30	E10	Autolite Generator.....	.40
E6	Ford, Third Brush .....	.50	E11	Bosch.....	.65

E12 Delco-Remy Ignition Wrench

Specifically designed for Electrolock Cable Nuts on Delco Remy systems (Chevrolet).

Net Price..... \$0.35

No. 2572 Ignition Plier

A dandy little plier for electrical work. Has a three-notch slip joint.

Net Price..... \$1.00

'CV' Chrome-Vanadium ENGINEERS' WRENCHES

Bonney 'CV' Chrome-Vanadium Engineers' Wrenches are the original alloy steel wrenches. 'CV' Chrome-Vanadium Wrenches are thinner, longer and much stronger than carbon steel wrenches. They are perfectly balanced and their heads are thin and pear-shaped. All are Chrome-plated and have buffed heads at a 15° angle.

Numbers, Sizes and Prices 'CV' ENGINEERS' WRENCHES

Wrench No.	U.S.S. Bolt Size	Hex. Hd. Cap Screw	S.A.E. Std. Screw and Nut	Openings Milled	Extreme Length	Thickness of Head	Net Price
1020	& $\frac{1}{8}$	& $\frac{1}{8}$	.....	$\frac{1}{4}$ & $\frac{5}{16}$	3	$\frac{5}{32}$	\$0.30
1721	$\frac{1}{8}$ & $\frac{1}{8}$	$\frac{1}{8}$ & $\frac{5}{16}$	.....	$\frac{5}{16}$ & $\frac{3}{8}$	$3\frac{7}{8}$	$\frac{3}{16}$	
1021	$\frac{1}{8}$ & $\frac{3}{16}$	$\frac{1}{8}$ &	.....	$\frac{5}{16}$ & $\frac{13}{32}$	$3\frac{1}{8}$	$\frac{3}{16}$	
1722	$\frac{1}{8}$ &	$\frac{1}{8}$ & $\frac{1}{4}$	& $\frac{1}{4}$	$\frac{5}{16}$ & $\frac{7}{16}$	$4\frac{1}{8}$	$\frac{7}{32}$	
1723	.....	$\frac{3}{16}$ & $\frac{1}{4}$	& $\frac{1}{4}$	$\frac{3}{8}$ & $\frac{7}{16}$	$4\frac{1}{8}$	$\frac{7}{32}$	
1022	$\frac{1}{8}$ & $\frac{1}{4}$	$\frac{1}{8}$ & $\frac{5}{16}$	& $\frac{5}{16}$	$\frac{5}{16}$ & $\frac{1}{2}$	$4\frac{1}{2}$	$\frac{7}{32}$	
1023	$\frac{3}{16}$ & $\frac{1}{4}$	$\frac{3}{16}$ & $\frac{5}{16}$	& $\frac{5}{16}$	$\frac{13}{32}$ & $\frac{1}{2}$	$4\frac{1}{2}$	$\frac{7}{32}$	
1723A	.....	$\frac{3}{16}$ & $\frac{5}{16}$	& $\frac{5}{16}$	$\frac{3}{8}$ & $\frac{1}{2}$	$4\frac{1}{2}$	$\frac{7}{32}$	
1724	.....	$\frac{3}{16}$ & $\frac{3}{8}$	& $\frac{3}{8}$	$\frac{3}{8}$ & $\frac{9}{16}$	$5\frac{1}{2}$	$\frac{15}{64}$	
1024	$\frac{3}{16}$ & $\frac{5}{16}$	.....	.....	$\frac{13}{32}$ & $\frac{19}{32}$	$5\frac{1}{2}$	$\frac{15}{64}$	
1725	.....	$\frac{1}{4}$ & $\frac{5}{16}$	$\frac{1}{4}$ & $\frac{5}{16}$	$\frac{7}{16}$ & $\frac{1}{2}$	$5\frac{1}{2}$	$\frac{15}{64}$	
1725A	.....	$\frac{1}{4}$ & $\frac{3}{8}$	$\frac{1}{4}$ & $\frac{3}{8}$	$\frac{1}{4}$ & $\frac{3}{8}$	$5\frac{1}{2}$	$\frac{15}{64}$	
1725B	.....	$\frac{5}{16}$ & $\frac{3}{8}$	$\frac{5}{16}$ & $\frac{3}{8}$	$\frac{1}{2}$ & $\frac{9}{16}$	$5\frac{1}{2}$	$\frac{15}{64}$	
1025	$\frac{1}{4}$ & $\frac{5}{16}$	$\frac{5}{16}$ & $\frac{5}{16}$	$\frac{5}{16}$ &	$\frac{1}{2}$ & $\frac{19}{32}$	$5\frac{1}{2}$	$\frac{15}{64}$	
1726	$\frac{1}{4}$ &	$\frac{5}{16}$ & $\frac{7}{16}$	$\frac{5}{16}$ & $\frac{7}{16}$	$\frac{1}{2}$ & $\frac{5}{8}$	$6\frac{1}{2}$	$\frac{9}{32}$	
1026	$\frac{1}{4}$ & $\frac{3}{8}$	$\frac{5}{16}$ & $\frac{3}{8}$	$\frac{5}{16}$ &	$\frac{1}{2}$ & $\frac{11}{16}$	$6\frac{1}{2}$	$\frac{9}{32}$	
1727	.....	$\frac{3}{8}$ & $\frac{7}{16}$	$\frac{3}{8}$ & $\frac{7}{16}$	$\frac{9}{16}$ & $\frac{5}{8}$	$6\frac{1}{2}$	$\frac{9}{32}$	
1027	$\frac{5}{16}$ & $\frac{3}{8}$	.....	.....	$\frac{19}{32}$ & $\frac{11}{16}$	$6\frac{1}{2}$	$\frac{9}{32}$	
1027C	.....	$\frac{3}{8}$ & $\frac{5}{8}$	$\frac{3}{8}$ &	$\frac{9}{16}$ & $\frac{11}{16}$	$6\frac{1}{2}$	$\frac{9}{32}$	
1028	$\frac{5}{16}$ & $\frac{7}{16}$	.....	.....	$\frac{19}{32}$ & $\frac{25}{32}$	$7\frac{1}{2}$	$\frac{5}{16}$	
1728	.....	$\frac{3}{8}$ & $\frac{1}{2}$	$\frac{3}{8}$ & $\frac{1}{2}$	$\frac{9}{16}$ & $\frac{3}{4}$	$7\frac{1}{2}$	$\frac{5}{16}$	
1028S	.....	$\frac{7}{16}$ & $\frac{1}{2}$	$\frac{7}{16}$ & $\frac{1}{2}$	$\frac{5}{8}$ & $\frac{25}{32}$	$7\frac{1}{2}$	$\frac{5}{16}$	
1729	.....	$\frac{7}{16}$ & $\frac{1}{2}$	$\frac{7}{16}$ & $\frac{1}{2}$	$\frac{5}{8}$ & $\frac{3}{4}$	$7\frac{1}{2}$	$\frac{5}{16}$	
1029	$\frac{3}{8}$ & $\frac{7}{16}$	.....	.....	$\frac{11}{16}$ & $\frac{25}{32}$	$7\frac{1}{2}$	$\frac{5}{16}$	
1730	.....	$\frac{7}{16}$ & $\frac{9}{16}$	$\frac{7}{16}$ & $\frac{9}{16}$	$\frac{9}{8}$ & $\frac{13}{16}$	$7\frac{1}{2}$	$\frac{5}{16}$	
1030	$\frac{3}{8}$ & $\frac{1}{2}$	$\frac{3}{8}$ & $\frac{5}{8}$	$\frac{3}{8}$ & $\frac{9}{16}$	$\frac{11}{16}$ & $\frac{7}{8}$	$7\frac{1}{2}$	$\frac{5}{16}$	
1731	.....	$\frac{1}{2}$ & $\frac{9}{16}$	$\frac{1}{2}$ & $\frac{9}{16}$	$\frac{3}{4}$ & $\frac{13}{16}$	9	$\frac{3}{8}$	
1731A	& $\frac{1}{2}$	$\frac{1}{2}$ & $\frac{5}{8}$	$\frac{1}{2}$ & $\frac{9}{16}$	$\frac{3}{4}$ & $\frac{7}{8}$	9	$\frac{3}{8}$	
1031	$\frac{7}{16}$ & $\frac{1}{2}$	.....	$\frac{7}{16}$ & $\frac{9}{16}$	$\frac{25}{32}$ & $\frac{7}{8}$	9	$\frac{3}{8}$	
1731B	& $\frac{1}{2}$	$\frac{9}{16}$ & $\frac{5}{8}$	$\frac{9}{16}$ & $\frac{9}{16}$	$\frac{13}{16}$ & $\frac{7}{8}$	9	$\frac{3}{8}$	
1732A	.....	$\frac{1}{2}$ & $\frac{3}{4}$	$\frac{1}{2}$ & $\frac{11}{16}$	$\frac{3}{4}$ & 1	9	$\frac{3}{8}$	
1032	$\frac{7}{16}$ & $\frac{9}{16}$	.....	.....	$\frac{25}{32}$ & $\frac{31}{32}$	9	$\frac{3}{8}$	
1732	.....	$\frac{9}{16}$ & $\frac{3}{4}$	.....	$\frac{13}{16}$ & 1	9	$\frac{3}{8}$	
1033A	$\frac{1}{2}$ &	$\frac{5}{8}$ &	$\frac{9}{16}$ & $\frac{5}{8}$	$\frac{7}{8}$ & $\frac{15}{16}$	9	$\frac{3}{8}$	
1033	$\frac{1}{2}$ & $\frac{9}{16}$	$\frac{5}{8}$ &	$\frac{9}{16}$ &	$\frac{7}{8}$ & $\frac{31}{32}$	9	$\frac{3}{8}$	
1733	$\frac{1}{2}$ &	$\frac{5}{8}$ & $\frac{3}{4}$	$\frac{9}{16}$ & $\frac{11}{16}$	$\frac{7}{8}$ & 1	$10\frac{1}{2}$	$\frac{15}{32}$	
1033C	.....	$\frac{8}{8}$ & $\frac{3}{4}$	$\frac{5}{8}$ & $\frac{11}{16}$	$\frac{13}{16}$ & 1	$10\frac{1}{2}$	$\frac{15}{32}$	
1034	$\frac{1}{2}$ & $\frac{5}{8}$	$\frac{5}{8}$ &	$\frac{9}{16}$ & $\frac{3}{4}$	$\frac{7}{8}$ & $\frac{11}{16}$	$10\frac{1}{2}$	$\frac{15}{32}$	
1734	$\frac{1}{2}$ &	$\frac{5}{8}$ & $\frac{7}{8}$	$\frac{9}{16}$ &	$\frac{7}{8}$ & $\frac{11}{16}$	$10\frac{1}{2}$	$\frac{15}{32}$	
1034A	& $\frac{5}{8}$	.....	$\frac{5}{8}$ & $\frac{3}{4}$	$\frac{13}{16}$ & $\frac{11}{16}$	$10\frac{1}{2}$	$\frac{15}{32}$	
1035	$\frac{9}{16}$ & $\frac{5}{8}$	.....	$\frac{3}{4}$ & $\frac{3}{4}$	$\frac{21}{32}$ & $\frac{11}{16}$	$10\frac{1}{2}$	$\frac{15}{32}$	
1735	.....	$\frac{3}{4}$ & $\frac{7}{8}$	$\frac{11}{16}$ &	1 & $\frac{1}{16}$	12	$\frac{17}{32}$	
1036	$\frac{9}{16}$ & $\frac{3}{4}$	& 1	& $\frac{7}{8}$	$\frac{31}{32}$ & $\frac{1}{4}$	12	$\frac{17}{32}$	
1736	& $\frac{3}{4}$	$\frac{3}{4}$ & 1	$\frac{11}{16}$ & $\frac{7}{8}$	1 & $\frac{1}{4}$	12	$\frac{17}{32}$	
1037	$\frac{5}{8}$ & $\frac{3}{4}$	& 1	$\frac{3}{4}$ & $\frac{7}{8}$	$\frac{1}{16}$ & $\frac{1}{4}$	12	$\frac{17}{32}$	
1737	& $\frac{3}{4}$	$\frac{7}{8}$ & 1	& $\frac{7}{8}$	1 $\frac{1}{8}$ & $\frac{1}{4}$	12	$\frac{17}{32}$	
1038	$\frac{5}{8}$ & $\frac{1}{8}$	.....	$\frac{3}{4}$ & 1	$\frac{1}{16}$ & $\frac{1}{16}$	14	$\frac{9}{16}$	
1738	.....	$\frac{7}{8}$ & $\frac{1}{16}$	.....	$\frac{1}{8}$ & $\frac{1}{3}$	14	$\frac{9}{16}$	
1739	$\frac{3}{4}$ &	1 & $\frac{1}{8}$	$\frac{7}{8}$ &	$\frac{1}{4}$ & $\frac{3}{8}$	14	$\frac{9}{16}$	
1039	$\frac{3}{4}$ & $\frac{7}{8}$	1 &	$\frac{7}{8}$ & 1	$\frac{1}{4}$ & $\frac{11}{16}$	14	$\frac{9}{16}$	
1739A	$\frac{3}{4}$ &	1 & $\frac{1}{4}$	$\frac{7}{8}$ &	$\frac{1}{4}$ & $\frac{1}{2}$	14	$\frac{9}{16}$	
1739B	.....	$1\frac{1}{8}$ & $1\frac{1}{4}$	.....	$\frac{3}{8}$ & $\frac{1}{2}$	14	$\frac{9}{16}$	
1040	$\frac{3}{4}$ & 1	1 & $\frac{1}{8}$	$\frac{7}{8}$ & $1\frac{1}{8}$	$1\frac{1}{4}$ & $\frac{5}{8}$	14	$\frac{9}{16}$	
1041	$\frac{7}{8}$ & 1	& $\frac{1}{3}$	1 & $1\frac{1}{8}$	$1\frac{1}{16}$ & $1\frac{1}{8}$	$15\frac{1}{2}$	$\frac{13}{16}$	5.00

ENGINEERS' WRENCH SET No. 25



The No. 25 Engineers' Wrench Set was assembled to offer the mechanic and general user a wrench set to cover all the most popular sizes of nuts and bolts. The Wrenches in the No. 25 Set are made of *Chrome-Vanadium* Steel and are Chrome-plated. They have different openings in each end. Their thin, pear shaped heads allow them to be used in hard-to-get-at places.

No. 25 Set contains one each of Nos. 1723, 1025, 1027C, 1028S, 1731A and 1033C, having openings of $\frac{3}{8}$ " and $\frac{1}{16}$ ", $\frac{1}{2}$ " and $1\frac{19}{32}$ ", $\frac{5}{16}$ " and $1\frac{11}{16}$ ", $\frac{5}{8}$ " and $2\frac{5}{32}$ ", $\frac{3}{4}$ " and $\frac{7}{8}$ ", $1\frac{5}{16}$ " and 1" respectively.

NET PRICES

In Cardboard Box	\$3.85
In Leatherette Roll	4.35

'CV' Chrome-Vanadium SHORT "S" WRENCHES

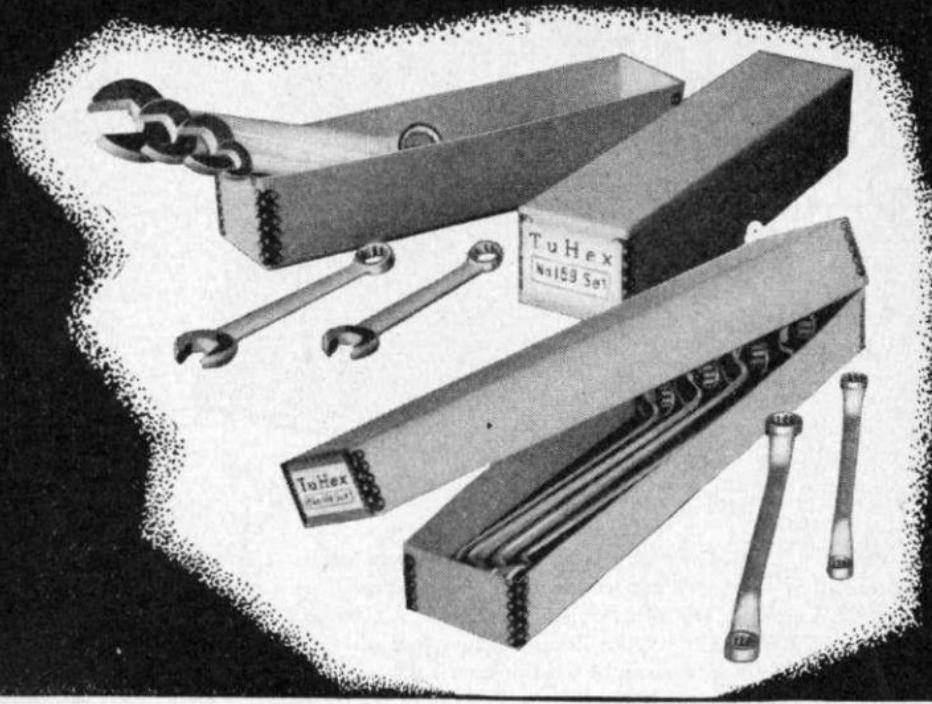
Bonney Short "S" Wrenches find many useful applications in automotive work. Through the use of *Chrome-Vanadium* Steel they have been made strong and light in weight. Heads are at an angle of 20° and are buffed.

NUMBERS, SIZES and PRICES SHORT "S" WRENCHES

Wrench No.	U.S.S. Bolt Size	Hex. Head Cap Screw	S.A.E. Standard Screw and Nut	Openings Milled	Extreme Length	Thick- ness Head	Net Price
1070	.....	$\frac{3}{16}$ & $\frac{1}{4}$	& $\frac{1}{4}$	$\frac{3}{8}$ & $\frac{7}{16}$	4	$\frac{1}{4}$	\$0.40
1071	$\frac{1}{4}$ &	$\frac{5}{16}$ & $\frac{3}{8}$	$\frac{5}{16}$ & $\frac{3}{8}$	$\frac{1}{2}$ & $\frac{9}{16}$	5	$\frac{5}{16}$	.55
1072	.....	$\frac{1}{2}$ & $\frac{9}{16}$	$\frac{1}{2}$ &	$\frac{3}{4}$ & $1\frac{13}{16}$	6	$\frac{3}{8}$	.75
1073	$\frac{1}{2}$ &	$\frac{5}{8}$ & $\frac{3}{4}$	$\frac{9}{16}$ & $1\frac{11}{16}$	$\frac{7}{8}$ & 1	7	$\frac{7}{16}$	.95



STOP! YOU NEED THESE SETS



Useful!.. Practical!.. Convenient!

Set No. 169

You'll want these *Chrome-Vanadium* combination Box and Open-end Wrenches. They are real general purpose tools. The Open-end and Box openings combined in the same tool provide you with two distinct types of wrenches. No. 169 Set contains six of these Wrenches.

listed below. Don't be without it! It is practical and inexpensive. Use the enclosed order blank, or buy from your jobber.

**COMPLETE
\$3 20
TO YOU**

Set No. 191

Box Wrenches are a necessity to every mechanic's tool kit. They are great time and labor savers on those hard-to-get-at jobs. No. 191 Set is just the right set for that purpose. It contains six TuHex Box Wrenches (listed below) Nos. 180, 181, 182, 183, 184 and 185. They are made of

Chrome-Vanadium Steel, are plated and have buffed heads. Order from your jobber or fill in and mail the enclosed order blank.

**COMPLETE
\$3 36
TO YOU**

TuHex COMBINATION BOX and OPEN END WRENCHES

Wrench No.	Openings	U.S.S. Bolt Size	Hex. Head Cap Screw	S.A.E. Std. Screw & Nut	Length	Net Price
161	7/16"		1/4	1/4	5 3/8"	\$0.40
162	1/2"		5/16	5/16	6"	.45
163	9/16"		3/8	3/8	6 3/4"	.50
164	5/8"		7/16	7/16	7 3/4"	.55
165	1 1/16"	3/8			8 5/8"	.60
166	3/4"		1/2	1/2	9 1/2"	.70

TuHex Chrome-Vanadium BOX WRENCHES

176	3/8 & 7/16		3/16 & 1/4	& 1/4	4 1/2"	.36
177	1/2 & 9/16	1/4 &	5/16 & 3/8	5/16 & 3/8	5 1/4"	.41
178	5/8 & 11/16	& 3/8	7/16 &	7/16 &	6"	.45
180	3/8 & 7/16		3/16 & 1/4	& 1/4	7 5/8"	.38
181	1/2 & 9/16	3/16 &	5/16 & 3/8	5/16 & 3/8	8 5/8"	.43
182	5/8 & 11/16	& 3/8	7/16 &	7/16 &	9 3/4"	.50
183	3/4 & 25/32	& 7/16	1/2 &	1/2 &	11 1/8"	.56
184	13/16 & 7/8	& 1/2	9/16 & 5/8	& 5/8	12 1/2"	.68
185	15/16 & 1		& 3/4	5/8 & 11/16	14 1/4"	.81

"BUY • BONNEY • AND

NEW! THE DOUBLE 'B' SET



You want this all-purpose set

Shrewd mechanics want a complete set of quality Wrenches and Tools . . . an all purpose set. We investigated to learn just what they have in mind. The result is the Bonney 'Double B' Set . . . selected from the complete Bonney line. It has gained instant popularity.

You'll like the 'Double B' Set . . . real value has been put into it by the selection of its contents . . . the Sockets and Attachments . . . the Open-end and Box Wrenches . . . the Chisels, Punches, Screw Drivers, Pliers, Hammers and other tools . . . 72 pieces in all.

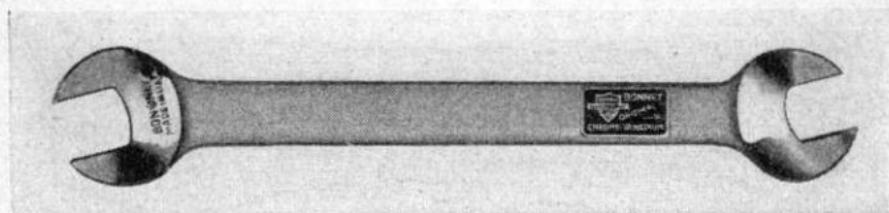
It is packed in a big, strong, roomy metal chest . . . large enough to serve as a box for your main tool kit.

If you are looking for the finest all-purpose set on the market, order your 'Double B' Set today. Talk with your jobber or fill in and mail the enclosed order blank.

72 PIECES
\$51¹⁰
TO YOU

Wrench No.	Description	Net Price	Wrench No.	Description	Net Price	No.	Description	Net Price
SOCKETS AND ATTACH.								
D14	16" Double-Hexagon . . .	\$0.40	4092	Cross Handle for 10" Exten . . .	\$.30	C2	Flat Chisel . . .	\$0.45
D16	16" " "	.40	4095	Universal Joint . . .	1.50	C4	Flat Chisel . . .	.65
D18	16" " "	.40	4096	Hinge Handle, 15" Long . . .	2.25	C6	Flat Chisel . . .	1.00
D19	16" " "	.40	4097	Reversible Ratchet with Lug . . .	3.35	C12	Cap Chisel . . .	.55
D20	16" " "	.40				C15	Diamond Point Chisel . . .	.55
D21	16" " "	.40				C21	Solid Punch . . .	.40
D22	16" " "	.45				C23	Solid Punch . . .	.60
D24	16" " "	.50	3114	ZENEL TuType . . .	.65	C25	Long Taper Punch . . .	.55
D25	16" " "	.50	3116	ZENEL TuType . . .	.75	C28	Pin Punch . . .	.40
D26	16" " "	.50	3118	ZENEL TuType . . .	.85	C30	Pin Punch . . .	.60
D28	16" " "	.50	3120	ZENEL TuType . . .	.95	C34	Center Punch . . .	.35
D30	16" " "	.60	3723	ZENEL Engineers . . .	.50	C38	Pry or Pinch Bar . . .	
D31	16" " "	.60	3025		.60			
D32	16" " "	.60	3027C		.70			
LD26T	16" Extra Deep . . .	.70	3028S		.90	001	Pocket Size Screw Driver . . .	.25
LD28T	16" " "	.70	3731A		1.20	E03	Electricians' (with Neon Tube) . . .	1.00
LD32	16" " "	.85	3033C		1.50	S01	Adjusting . . .	.50
4116	16" Square . . .	.40	3422	16" & 16" Tappet (2 Wrchs.) . . .	.75	S04	Square Shank . . .	.80
4118	16" " "	.40	3424	16" & 16" Tappet (2 Wrchs.) . . .	.85	06	Round Shank . . .	1.00
2590	16" to 3/4" - Stud Wrench . . .	1.75	2816	Double-Hexagon Box . . .	.90	08	Round Shank . . .	1.25
4001	16" Drag Link . . .	.60	2818			006	Electricians' . . .	.75
4054	Brace, 13" Long . . .	1.50	2820					
4087	Sliding T Handle, 11" Long . . .	1.10	2822			PH2	MISCELLANEOUS	
4090	Extension, 5" Long . . .	.60	2824			PH7	Ball Pein (Gasket) Hammer . . .	1.00
4091	Extension, 10" Long . . .	1.20	2725B	Right Angle, 1/2" x 3/8" . . .	.45	2570	Ball Pein Hammer (1 lb.) . . .	1.15
						2572	Adjustable Plier, 3/4" to 2 1/4" . . .	1.45
							Ignition Plier . . .	1.00

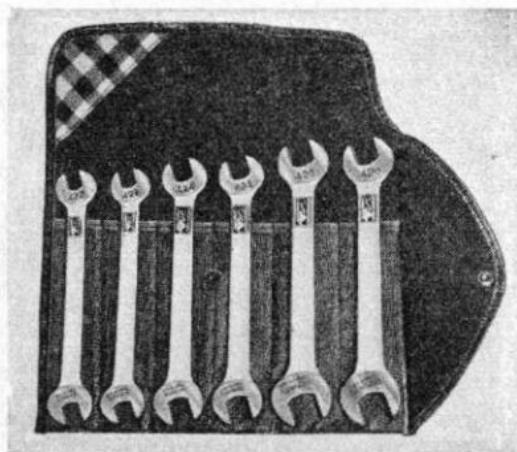
D • BUY • THE • BEST"

TAPPET WRENCHES - 420 Series

The 420 Series Bonney Tappet Wrenches combine lightness in weight with great strength. The heads are thin and pear shaped, and the Wrenches are long to make tappet adjusting easy. Both openings are of different size and are at an angle of 15°. Made of Chrome-Vanadium Steel and Chrome-plated.

420 Series - 'CV' Chrome-Vanadium TAPPET WRENCHES

Wrench No.	Openings Milled	S.A.E. Standard Screw and Nut	U.S.S. Bolt Size	Extreme Length	Thickness of Head	Net Price
420A	7/16 & 1/2	1/4 & 5/16	& 1/4	8	5/32	\$0.55
420	7/16 & 17/32	1/4 &	.....	8	5/32	.55
422	1/2 & 9/16	5/16 & 3/8	1/4 &	8	5/32	.55
424B	9/16 & 5/8	3/8 & 7/16	.....	8 1/2	3/16	.65
424	5/8 & 1 1/16	7/16 &	& 3/8	8 1/2	3/16	.65
424A	5/8 & 3/4	7/16 & 1/2	.....	8 1/2	3/16	.65
425	3/4 & 13/16	1/2 &	.....	9	1/32	.70
426	3/4 & 7/8	1/2 & 9/16	& 1/2	9	1/32	.70
428	15/16 & 1	5/8 & 11/16	.....	9 1/2	7/32	.80

TAPPET WRENCH SET No. 22

No. 22 Tappet Wrench Set is complete and adaptable to almost every make of passenger car and truck. It contains two each of Nos. 422, 424, and 426, with openings of 1/2" and 9/16", 5/8" and 11/16", 3/4" and 7/8" respectively.

Due to the thin design of 420 Series Tappet Wrenches, they are not recommended for work other than tappet adjusting.

NET PRICES

In Cardboard Box	\$3.40
In Leatherette Roll	3.85

VALVE TAPPET WRENCH CHART

for the 420 SERIES TAPPET WRENCHES

Make of Passenger Car	Model	Wrench Number
Auburn	All Models	(2) 422, (1) 424
Buick		(1) 422
Chandler	All Models	(3) 422
Chevrolet	4 and 5	(1) 424
Chrysler		(2) 422, (1) 424
DeSoto	6 and 8	(3) 422
Dodge	Standard & Victory 6 & 8	(3) 422
Dodge	Senior 6	(2) 422, (1) 424
Essex		(2) 422
Graham	6	(3) 422
Graham	8	(2) 422, (1) 424
Gardner		(2) 422, (1) 424
Hudson		(2) 422
Hupp		(2) 422
Lincoln	8E and 8M	(2) 422
Marmon	68	(2) 422, (1) 424
Nash	Standard 6	(2) 422, (1) 424
Nash	Special and Advanced	(1) 422
Oakland	6	(3) 422
Olds	6	(3) 422
Packard		(2) 422
Peerless	6-61, 6-81, 6-91, 125	(2) 422, (1) 424
Pierce-Arrow	36	(1) 422, (1) 426
Pierce-Arrow	81	(1) 424, (1) 426
Pierce-Arrow	8 Cylinder	(2) 422, (1) 424
Plymouth		(3) 422
Pontiac		(3) 422
Reo Wolverine		(2) 422, (1) 424
Reo Flying Cloud		(3) 422
Rolls Royce		(1) 422, (1) 424
Studebaker		(1) 420, (1) 422, (1) 424
Whippet		(3) 422
Willys 6		(1) 420, (2) 422
Make of Truck	Model	Wrench Number
Acme	26, 30P, 40P, 47	(2) 422, (1) 424
Acme	64, 90L, 150, 151	(2) 424, (1) 425
Brockway	75 and 90	(2) 422, (1) 424
Brockway	KR, R, RT, T	(2) 424, (1) 425
Brockway	BT	(1) 426, (2) 428
Clinton	20B, 32, 45, 65, 65-6	(1) 424, (2) 426
Clinton	85-6, 90, 90M, 120L, 120LM	(1) 426, (2) 428
Clydesdale	12 and 14	(1) 420, (2) 424
Clydesdale	6, 6X, 8, 4, 4X, 2	(2) 424, (1) 425
Defiance	OX	(2) 424, (1) 425
Defiance	OXH	(3) 422
Federal	4FW	(1) 420, (2) 422
Federal	F7, A6, A6T, A6TW	(2) 422, (1) 424
Federal	X8	(2) 424, (1) 425
Fageol	106, 130, 135, 250	(1) 420, (2) 422
Fageol	365, 370, 470, 6-66	(1) 420, (2) 422
Fageol	485, 10-66A, 10-66C	(2) 424, (1) 426
F. W. D.	BTL6, H6, HH6	(1) 420, (2) 422
Garford	S11	(1) 424, (2) 426
Garford	40	(3) 422
Garford	60, 80, 100	(1) 426, (2) 428
General Motors	T11, T19	(3) 422
Godfredson	RB24, RW44, RW54, RW64A	(1) 424, (2) 426
Godfredson	RB56, RW56	(3) 422
Godfredson	RW84A, RW104A	(1) 426, (2) 428
International Harvester	Spec. Del.	(1) 420, (2) 422
International Harvester	1 1/4, 1 1/2T, 2T	(1) 422, (1) 424
La France Republic	1T, 1 1/4T, 1 1/2T, 2T, 2 1/2T, 3T	(1) 422, (1) 424
La France Republic	M1	(1) 420, (2) 422
Larrabee	20, 30	(2) 422, (1) 424
Packard		(2) 422
Pierce-Arrow		(1) 422, (1) 424, (1) 426, (2) 422
Reo		(1) 422, (1) 424
Republic		(1) 422, (1) 424
Sanford	N, NO, AX	(2) 422, (1) 424
Selden	17, 317, 37	(2) 422, (1) 424
Schacht	15, 20, 20A	(2) 422, (1) 424
Schacht	25	(1) 420, (2) 422
Schacht	60, 65, 70	(1) 420, (2) 422
Sterling	1 1/4T, 1 1/2T	(2) 422, (1) 424
Sterling	2T, 3T, 3 1/2T, 4 1/2T	(1) 420, (2) 422
Sterling	4T, 5T	(1) 420, (2) 422
Stewart		(1) 422, (1) 424
Ward La France	25R, 30RU	(1) 420, (2) 422
Ward La France	35R, 4E6, 45D	(1) 420, (2) 422
Ward La France	5B6	(2) 424, (1) 426
White		(2) 424

TAPPET WRENCHES 401 Series

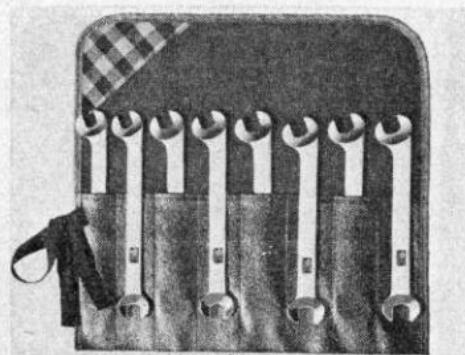


The thinness and length of the 401 series Tappet Wrenches makes them extremely useful for tappet adjusting. The mechanic works clear of the hot motor and the thin wrenches required may be readily worked with both hands. The angle of one head is at $22\frac{1}{2}^{\circ}$, the other straight, while the openings are the same in both ends. Made of *Chrome-Vanadium* Steel and Chrome-plated.

401 SERIES 'CV' *Chrome-Vanadium* TAPPET WRENCHES

Wrench No.	Openings Milled	S.A.E. Standard Screw and Nut	U.S.S. Bolt Size	Extreme Length	Thickness of Head	Net Price		
401	$\frac{3}{8}$	$\frac{1}{4}$	$\frac{1}{4}$	8	$\frac{5}{32}$	\$0.55		
401A	$\frac{7}{16}$				$\frac{5}{32}$			
402	$\frac{1}{2}$				$\frac{5}{32}$			
402A	$\frac{17}{32}$				$\frac{5}{32}$			
403	$\frac{9}{16}$				$\frac{5}{32}$			
403A	$1\frac{1}{32}$				$\frac{5}{32}$			
404	$\frac{5}{8}$	$\frac{7}{16}$	$\frac{3}{8}$	8	$\frac{3}{16}$.65		
404A	$2\frac{1}{32}$	$\frac{11}{16}$			$\frac{3}{16}$			
405	$1\frac{1}{16}$				$\frac{3}{16}$			
406	$\frac{3}{4}$	$\frac{1}{2}$	$\frac{7}{16}$	8	$\frac{7}{32}$.70		
406A	$2\frac{5}{32}$	$\frac{13}{16}$			$\frac{7}{32}$			
407	$1\frac{15}{32}$				$\frac{7}{32}$			
407A	$1\frac{7}{8}$	$\frac{9}{16}$			$\frac{7}{32}$			
408	$1\frac{15}{16}$	$\frac{5}{8}$	$\frac{9}{16}$	8	$\frac{7}{32}$.80		
408A	$3\frac{1}{32}$	$1\frac{1}{16}$			$\frac{7}{32}$			
409	1	$1\frac{1}{16}$			$\frac{7}{32}$			

TAPPET WRENCH SET No. 412

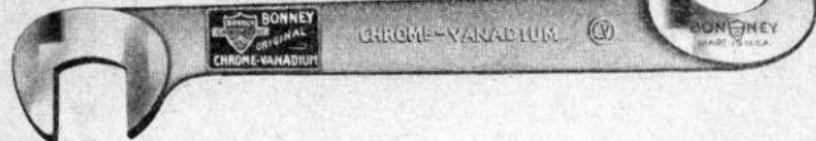


Eight Wrenches, two each of four sizes, make up the No. 412 Set. The Wrenches were selected to cover the greatest number of cars and trucks. Wrenches included are 402, 403, 404 and 405 having openings of $\frac{1}{2}$ inch, $\frac{5}{8}$ inch, $\frac{3}{4}$ inch and $1\frac{1}{16}$ inch. The angle of the one head, $22\frac{1}{2}^{\circ}$, allows the mechanic to work in normally inaccessible locations. They are made of *Chrome-Vanadium* Steel and are Chrome-plated. Comes packed three ways.

NET PRICES

In Cardboard Box	\$4.30
In Leatherette Roll	4.80
In Metal Box	4.80

RIGHT ANGLE WRENCHES



NUMBERS, SIZES and PRICES RIGHT ANGLE WRENCHES

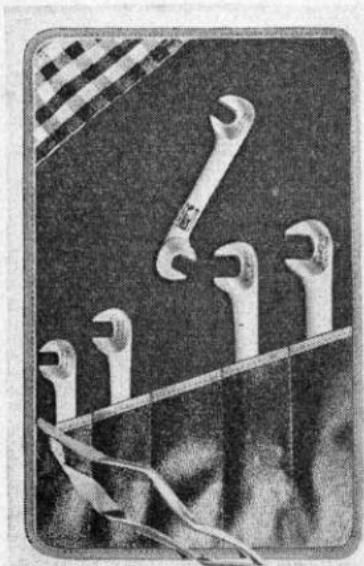
Wrench No.	U.S.S. Bolt Size	S.A.E. Std. Screw & Nut	Openings Milled	Extreme Length	Thickness of Head	Net Price
2721	1/8 &	.....	5/16 & 9/16	4 1/4	7/32	
2021	1/8 & 3/16	.....	5/16 & 13/32	4 1/4	7/32	
2722	1/8 &	& 1/4	5/16 & 7/16	4 1/4	7/32	
2723	.....	& 1/4	3/8 & 7/16	4 1/4	7/32	
2022	1/8 & 1/4	& 5/16	5/16 & 1/2	4 1/2	7/32	\$0.35
2023	9/16 & 1/4	& 5/16	13/32 & 1/2	4 1/2	7/32	
2723A	.....	& 5/16	3/8 & 1/2	4 1/2	7/32	.40
2724	.....	& 3/8	3/8 & 9/16	5 1/2	15/64	
2024	3/16 & 5/16	.....	13/32 & 19/32	5 1/2	15/64	
2725	.....	& 1/4	7/16 & 1/2	5 1/2	15/64	
2725A	.....	1/4 & 3/8	7/16 & 9/16	5 1/2	15/64	
2725B	1/4 &	5/16 & 3/8	1/2 & 9/16	5 1/2	15/64	
2025	1/4 & 5/16	5/16 &	1/2 & 19/32	5 1/2	15/64	
2726	1/4 &	5/16 & 7/16	1/2 & 5/8	6 1/2	9/32	
2026	1/4 & 3/8	5/16 &	1/2 & 11/16	6 1/2	9/32	
2727	.....	3/8 & 7/16	9/16 & 5/8	6 1/2	9/32	
2027	5/16 & 3/8	.....	19/32 & 11/16	6 1/2	9/32	.55
2027C	.....	3/8 & 5/8	9/16 & 11/16	6 1/2	9/32	
2028	5/16 & 7/16	.....	13/32 & 25/32	7 1/2	5/16	
2728	.....	3/8 & 1/2	9/16 & 3/4	7 1/2	5/16	
2028S	.....	7/16 &	5/8 & 25/32	7 1/2	5/16	
2729	.....	1/16 & 1/2	5/8 & 3/4	7 1/2	5/16	
2029	3/8 & 7/16	.....	11/16 & 25/32	7 1/2	5/16	.70
2730	.....	7/16 &	5/8 & 13/16	7 1/2	5/16	
2030	3/8 & 1/2	.....	11/16 & 7/8	7 1/2	5/16	
2731	.....	1/2 &	3/4 & 13/16	9	3/8	
2731A	.....	1/2 & 9/16	3/4 & 7/8	9	3/8	
2031	7/16 & 1/2	.....	25/32 & 7/8	9	3/8	
2731B	.....	1/2 & 9/16	13/16 & 7/8	9	3/8	
2732	.....	.....	13/16 & 1	9	3/8	
2032	7/16 & 9/16	.....	25/32 & 31/32	9	3/8	
2732A	.....	3/2 & 11/16	3/4 & 1	9	3/8	
2033A	1/2 &	9/16 & 5/8	7/8 & 15/16	9	3/8	
2033	1/2 & 9/16	9/16 &	7/8 & 31/32	9	3/8	

RIGHT ANGLE WRENCH SET No. 40

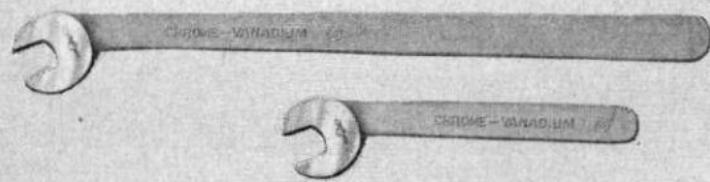
No. 40 Right-Angle Wrench Set is useful for work in close quarters such as often occurs on brakes, manifolds, cylinder heads and similar jobs. The heads of the Wrenches are pear shaped and of similar design to Bonney Engineers' Wrenches. Five Wrenches, Nos. 2723, 2025, 2027C, 2028S and 2731A make up the set. No openings are duplicated. Made of Chrome-Vanadium Steel and plated.

NET PRICES

In Cardboard Box	\$2.70
In Leatherette Roll	3.20



ANGLE-HEAD SERVICE WRENCHES



Suitable for production and service work, and tappet adjustments on certain cars. Their jaws will take the full leverage of the long handles. Made of Chrome-Vanadium Steel and Chrome-plated.

Numbers, Prices, Sizes, ANGLE-HEAD SERVICE WRENCHES

Wrench No.	U.S.S. Bolt Size	Hex. Hd. Cp.Scr.	S.A.E. Std. Scr. & Nut	Open'g Milled	Extreme Length	Thickn's of Head	Net Price
Short Hdle.	1401	5/16	6" L ONG	3/8	6	7/32	
	1401A	1/4	1/4	7/16	6	7/32	
	1402	3/8	5/16	1/2	6	7/32	
	1402A			17/32	6	7/32	
	1403	3/8	3/8	9/16	6	7/32	
Med. Hdle.	1403A	5/16		19/32	6	7/32	
	1404A	3/8	3/8	9/16	9	9/32	
	1404	7/16	1/4	5/8	9	9/32	
	1405	3/8		11/16	9	9/32	
	1406	1/2	1/2	3/4	9	9/32	
Long Hdle.	1501	3/16	6" L ONG	3/8	12	7/32	
	1501A	1/4	1/4	7/16	12	7/32	
	1502	3/8	5/16	1/2	12	7/32	
	1502A			17/32	12	7/32	
	1503	3/8	3/8	9/16	12	7/32	
	1503A	5/16		19/32	12	7/32	
	1504		7/16	5/8	12	9/32	
	1505	3/8		11/16	12	9/32	
	1506		1/2	3/4	12	11/32	
	1506A	7/16		25/32	12	11/32	
	1507		9/16	13/16	12	11/32	
	1507A	3/2		7/8	12	11/32	
	1508			15/16	12	11/32	
	1508A	9/16		31/32	12	11/32	
	1509		3/4	11/16	1	11/32	
	1509A	5/8		1 1/16	12	11/32	

SINGLE-HEAD ENGINEERS' WRENCHES

15° Angle



Wr'h No.	Op'ng Milled	Extreme Length	Th'kn's Head	Net Price	Wr'h No.	Op'ng. Milled	Extr'e Length	Th'kn's Head	Net Price
1000	5/16	3 1/2	7/32		1005	3/8	8 1/8	7/16	.70
1700	3/8	4	1/4		1006	31/32	9 1/4	1/2	
1000A	13/32	4	1/4		1706	1	9 1/4	1/2	.80
1701	7/16	4 5/8	9/32		1007	1 1/16	10 1/2	9/16	
1001	1/2	4 5/8	9/32	.30	1707	1 1/8	10 1/2	9/16	
1702	9/16	5 1/2	5/16		1008	1 1/4	12	5/8	
1002	19/32	5 1/2	5/16	.40	1708A	1 3/8	12	5/8	
1703	5/8	6 3/8	11/32		1009	1 7/16	13 1/2	23/32	
1003	11/16	6 3/8	11/32	.50	1709	1 1/2	13 1/2	23/32	
1704	3/4	7 1/4	3/8		1010	1 5/8	15	25/32	3.00
1004	25/32	7 1/4	3/8	.60	1011	1 15/16	16 1/2	7/8	3.85
1705	13/16	8 1/8	7/16	.70	1012	2	18 1/4	15/16	5.35

WATER PUMP PACKING NUT WRENCHES

Due to the thinness of water pump packing nuts, and because most of them are made of brass, extreme care must be used in adjusting them. Bonney Water Pump Packing Nut Wrenches have been specially designed for this job. They have very thin heads and just the proper length handles to provide the correct leverage. Made of *Chrome-Vanadium Steel* and *Chrome-plated*. Openings are at an angle of 30°. The use of these Wrenches in other classes of work or with added leverage is not recommended.



WATER PUMP PACKING NUT WRENCHES

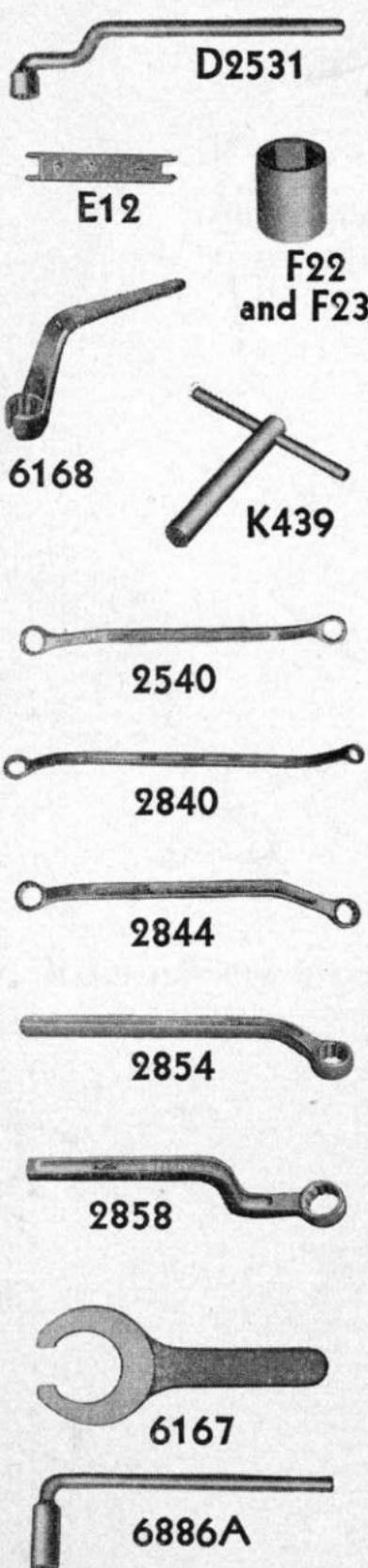
Wrench No.	Opening Milled	Length	Thickness of Head	Net Price
1224	3/4	7	1/4	
1224A	1 1/8	7	1/4	
1226	13/16	7	1/4	
1228	7/8	7	1/4	
1230	15/16	7	1/4	
1232	1	7	1/4	
1232A	1 1/32	7	1/4	\$0.90
1234	1 1/16	7	1/4	
1236	1 1/8	7	1/4	
1236S	1 5/16	7	1/4	
1236X	1 5/16	7	7/32	
1238	1 3/16	7	1/4	
1240	1 1/4	7	1/4	
1242	1 5/16	7 3/4	9/32	
1244	1 3/8	7 3/4	9/32	
1246	1 7/16	7 3/4	9/32	1.00
1248	1 1/2	7 3/4	9/32	
1250	1 9/16	7 3/4	9/32	
1252	1 1/8	7 3/4	9/32	
1256	1 3/4	8 1/2	5/16	
1258	1 13/16	8 1/2	5/16	
1260	1 7/8	8 1/2	5/16	
1262	1 15/16	8 1/2	5/16	
1264	2	8 1/2	5/16	
1264S	2 9/16	8 1/2	5/16	1.25
1266	2 1/16	8 1/2	5/16	
1268	2 1/8	8 1/2	5/16	
1272	2 1/4	8 1/2	5/16	
1276	2 3/8	8 1/2	5/16	
1272S	2 1/2	8 1/2	5/16	

Bonney produces Water Pump Wrenches for almost every make of car. If the wrench you require is not listed, write direct to the factory for complete information.

WATER PUMP PACKING NUT WRENCH CHART

Make of Car	Model	Wr'h No.	Make of Car	Model	Wr'h No.
Auburn	76	1234	Graham-Paige	835	1240
Auburn	88	1234	Gardner		1234
Auburn	115	1234	Hudson	6	1246
Buick	116	1228	Hudson	8	1238
Buick	121	1228	Hupmobile	8-E	1236
Buick	129	1228	Hupmobile	8-M	1236
Chandler	6-65	1256	Hupmobile		Century 6
Chandler	Big 6	1234	Hupmobile	M-3	1232
Chandler	Royal 75	1240	Marmon	78	1246
Chandler	Royal 85	1240	Marmon	E-75	1246
Chevrolet	1928-4	1238	Nash—1929	Std. 6	1232
Chevrolet	" 6	1232A	Nash—1929	Spec. 6	1236 X
Chrysler	62 & 65	1224	Nash—1929	Adv. 6	1236 X
Chrysler	70-77-8 cyl.	1238	Oakland	1928-AA6	1224
Chrysler	Imperial	1240	Oakland	1929 & 1930	1224
De Soto		1224	Oldsmobile	F-28 & 1933	1236 S
De Soto	8	1238	Oldsmobile	1931 & 1932	1228
Dodge	Std. 6-1928	1224A	Overland	1929-4	1224 A
Dodge	Vict. 6-1928	1224A	Overland	1929-6	1224 A
Dodge	Senior 6-1928	1232	Packard	626	1248
Dodge	6-1929	1238	Pierce-Arrow	1930	1234
Dodge	Senior 6-1929	1248	Plymouth	1931	1238
Dodge	Senior 8-1930	1238	Pontiac	1929 & 1930	1224
Erskine	1929	1236	Reo	Wolverine	1236
Erskine	1930	1240	Studebaker	Dict. & Com.	1240
Graham-Paige	610	1240	Studebaker	President	1252
Graham-Paige	614	1240	Viking		1236 S
Graham-Paige	619	1240	Willys-Knight	56	1236
Graham-Paige	629	1240	Willys-Knight	70	1236

SPECIAL CHEVROLET WRENCHES



No. D2531

Double-Offset Wrench, to adjust 1932 model rear motor support, upper bolts. $\frac{5}{16}$ inch double-hexagon opening. Overall length 10 inches.

Net Price \$1.00

No. E12

Ignition Wrench designed for Electrolock Cable Nuts on Delco Remy electrical systems (Chevrolet). Made of Chrome-Vanadium Steel.

Net Price \$0.35

Nos. F22 and F23

Special Sockets for 1933 model Chevrolets. F22, for center and rear main bearing cap screws, has $1\frac{1}{16}$ inch hexagon opening. F23 for front main bearing cap screws has $2\frac{3}{16}$ inch hexagon opening. Have $\frac{1}{2}$ inch square drives.

Net Price \$0.40

No. K439

Designed for use on Chevrolet Standard Six Universal Joints. Equipped with $\frac{5}{16}$ inch double-hexagon opening.

Net Price \$0.65

No. 2540

For adjusting Chevrolet "4" main bearings. Overall length 13 inches. Wrench has $1\frac{3}{16}$ inch and $\frac{7}{8}$ inch double hexagon openings.

Net Price \$1.85

No. 2840

Used for adjusting Chevrolet "6" main bearings. The Wrench has $\frac{5}{8}$ inch and $\frac{3}{4}$ inch double-hexagon openings. Overall length is $13\frac{1}{2}$ inches.

Net Price \$1.85

No. 2844

To adjust manifold nuts, especially those of the Chevrolet "6". Length overall, 9 inches. Double-end, double-hexagon with openings of $\frac{5}{16}$ inch.

Net Price \$1.00

No. 2854

For Chevrolet "6" starter cap screws. Length $7\frac{1}{2}$ inches, and has double-hexagon opening of $\frac{5}{8}$ inch.

Net Price \$0.95

No. 2858

For removing bowls of Chevrolet "6" carburetors. Length overall $7\frac{3}{4}$ inches $\frac{3}{4}$ inch double-hexagon opening. Notice offset.

Net Price \$1.00

No. 6167

Designed to make adjustments on Chevrolet Brake Cross Rod. Length overall $7\frac{1}{4}$ inches, with a $1\frac{1}{16}$ inch slot.

Net Price \$0.85

No. 6168

Special Wrench for spark and throttle control rod nuts on back of instrument panel. Head has $\frac{5}{16}$ inch slot to pass over rod. Has $\frac{5}{16}$ inch double-hexagon opening. Overall length, 4 inches.

Net Price \$0.90

No. 6886A

Designed to make adjustments on 1932 rear motor support, lower bolts. Has a $\frac{5}{8}$ inch double-hexagon opening. Overall length, 9 inches.

Net Price \$0.95

SPECIAL FORD WRENCHES

No. F18

Special Socket for Ford V8 connecting rod bearing cap nuts. Has $\frac{5}{8}$ inch double-hexagon opening, $\frac{1}{2}$ inch square drive. Chrome-Vanadium Steel.

Net Price \$0.55

Nos. D21 and 4021

Used for adjusting Ford "A" and "AA" connecting rod bearing cap nuts. D21 has $\frac{11}{16}$ inch double-hexagon opening, 4021, $\frac{3}{4}$ inch single hexagon opening. Both have $\frac{1}{2}$ inch square drives. Chrome-Vanadium Steel.

Net Price D21 \$0.40

Net Price 4021 \$0.40

No. T50

Specially designed for jets in Model "A" Ford carburetor. Length 5 inches. Openings $\frac{5}{32}$ inch and $\frac{3}{16}$ inch.

Net Price \$0.75

No. 2105A

For making adjustments on Ford Model "A" connecting rods. Overall length 10 inches. Has $\frac{5}{32}$ inch hexagon opening.

Net Price \$0.85

No. 2416

Used on Model "A" "V8" and "B4" Ford Oil Pans. Has $\frac{1}{2}$ inch hexagon opening. Length 17 inches overall.

Net Price \$0.60

No. 2545

For Ford Model "A" and "AA" water pump. Length overall, $5\frac{1}{4}$ inches. Thickness $\frac{3}{16}$ inches.

Net Price \$0.63

No. 2549

For Ford Model "A", rear main bearing adjusting. Length is 15 inches, and has a $\frac{3}{4}$ inch double-hexagon opening. Made of Chrome-Vanadium steel.

Net Price \$1.35

No. 2556

A convenient tool for adjusting Ford "V8" headlamps. Slot allows adjustment to be made without disconnecting wiring. Opening $\frac{1}{8}$ inch. Length $8\frac{1}{4}$ inches.

Net Price \$1.00

No. 2575

For Ford drain and filler plugs. The $\frac{15}{16}$ inch hexagon socket used on crank case drain plug. $\frac{3}{8}$ inch square male plug used on differential drain and filler plug. $\frac{5}{8}$ inch double square opening used on transmission filler plug and drain plug. Length $10\frac{1}{4}$ inches.

Net Price \$1.35

No. 2577

Designed for removing, replacing and adjusting main jets and fuel pump valves on Model V8. Both ends equipped with pins.

Net Price \$1.00

No. 2578

The No. 2578 Spanner for adjusting Ford Model V8 Fan Belts. Made of Chrome-Vanadium Steel.

Net Price \$0.85

No. 2587

Used on main bearings on Models "A", "AA", "B", "BB" and V8. Has $\frac{5}{16}$ inch double square and $\frac{3}{4}$ inch double-hexagon openings. Length 16 inches.

Net Price \$1.35

No. 2588

Wrench for holding heads of main bearing bolts while tightening or adjusting main bearing cap nuts on the Ford V8. Has $\frac{5}{16}$ inch double-square openings. Chrome-Vanadium Steel and plated.

Net Price \$1.50

No. 2804A

Box Wrench for use on Choke-Rod Nut, models "A" and "AA" carburetors. Has $\frac{5}{16}$ inch and $\frac{3}{8}$ inch double-hexagon openings. Overall length $5\frac{1}{2}$ inches. Made from Chrome-Vanadium Steel.

Net Price \$0.70

No. 2857

Brake Wrench for work on Ford "A" and "AA" brakes. No. 2857 has $\frac{5}{16}$ inch and $\frac{1}{2}$ inch square openings. Overall length is $10\frac{1}{2}$ inches.

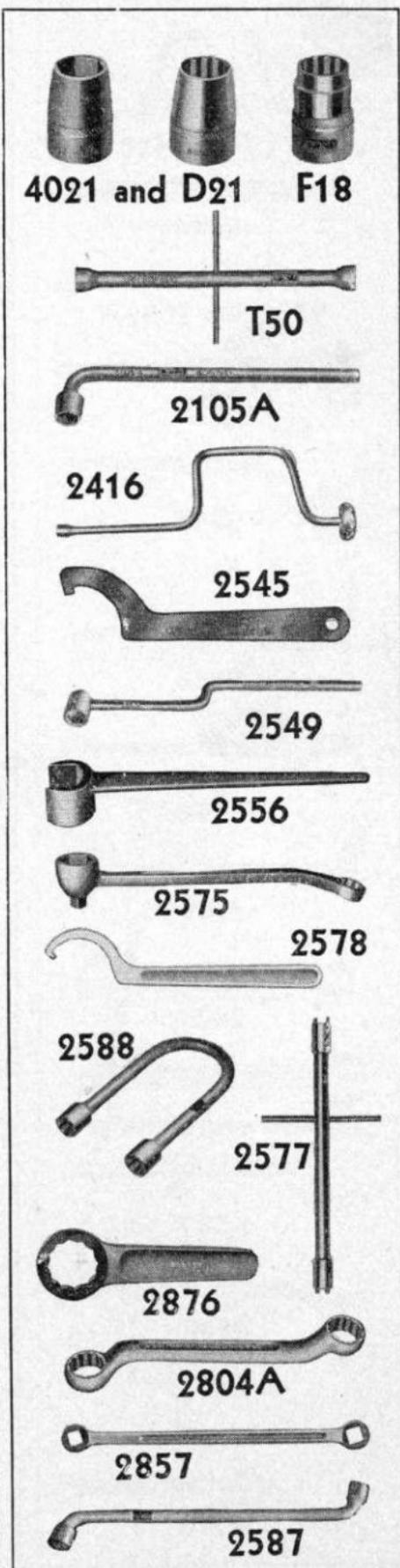
Net Price \$1.05

No. 2876

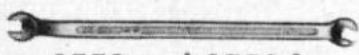
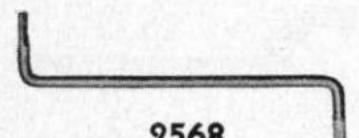
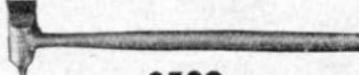
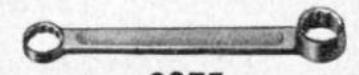
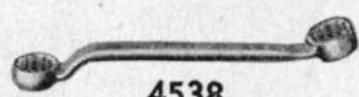
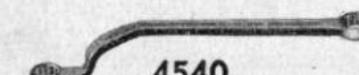
Designed to remove crankshaft ratchet nut on Fords. Equipped with $2\frac{1}{8}$ " double-hexagon opening. Length $6\frac{1}{8}$ " overall. Chrome-Vanadium Steel and Chrome plated.

Note—Nuts unscrewed by placing wrench over it and stepping on starter. Chassis cross member holds wrench while nut unscrews.

Net Price \$0.85



MISCELLANEOUS SPECIAL WRENCHES

**2420 to 2428****2544****2552 and 2552A****2556****2557****2568****2570****2589****2875****2880 and 2880A****4537****4538****4539****4540**

Nos. 2420, 2422, 2424, 2426, 2428
Carbon Steel Rim Wrenches. One piece. Hexagon openings, No. 2420, $\frac{5}{8}$ ", No. 2422, $1\frac{1}{16}$ ", No. 2424, $\frac{3}{4}$ ", No. 2426, $1\frac{3}{16}$ " and 2428 $\frac{7}{8}$ " openings.

Net Price.....\$0.40

No. 2544

For Mack truck tappet adjustments on Models "AB" and "AC". Length 12", $\frac{5}{16}$ " thick. $1\frac{1}{4}$ " opening.

Net Price.....\$2.00

Nos. 2552 and 2552A

Open-end offset Wrench for wire wheel spoke nipples. No. 2552 has $\frac{9}{32}$ " openings. No. 2552A $1\frac{1}{16}$ " openings.

Net Price.....\$1.20

No. 2556

For adjusting Ford and Essex Terraplane headlamps. Opening $15\frac{1}{16}$ ". Length 8 $\frac{1}{4}$ ".

Net Price.....\$1.00

No. 2557

For use on late model Packard 14MM Spark Plugs. Has $1\frac{1}{16}$ " double-hexagon opening. Length 7 $\frac{1}{2}$ ".

Net Price.....\$1.00

No. 2558

Rim Tool for Kelsey-Hayes and C.W.C. Trucks Overall length 18 $\frac{1}{2}$ ".

Net Price.....\$1.30

No. 2570

Adjustable Plier. Five notch slip joint pattern. Opens from $\frac{1}{2}$ " to 2 $\frac{1}{4}$ ". Length 9 $\frac{1}{2}$ ". Weight 8 oz.

Net Price.....\$1.45

No. 2599

Hammer headed Screw Driver. Thickness of blade $\frac{5}{64}$ " — width $\frac{1}{2}$ ". Length overall 7". Chrome-Vanadium Steel and plated.

Net Price.....\$0.75

No. 2875

Wrench for battery terminal nuts. ZENEL steel. Has $\frac{1}{16}$ " and $\frac{5}{8}$ " double-hexagon openings. Length 6".

Net Price.....\$0.60

Nos. 2880 and 2880A

Wrenches for wire wheel valve stem nuts. No. 2880 has $2\frac{29}{32}$ " and $\frac{3}{4}$ " openings. No. 2880A $1\frac{1}{16}$ " and $\frac{3}{4}$ " openings. Use on other than stem nuts is not recommended.

Net Price.....\$1.35

No. 4537

For 1934 Buick Steering Gear Eccentric. 1 $\frac{1}{8}$ " double-hexagon opening. Length overall, 8 $\frac{5}{8}$ ". Thickness of head, $\frac{1}{16}$ ". Chrome-Vanadium Steel and plated. Not guaranteed.

Net Price.....\$1.25

No. 4538

For 1934 Buick Steering Gear Eccentric Lock Nut and Roller Shaft Adjusting Lock Nut. Openings $1\frac{1}{16}$ " and $\frac{7}{8}$ " double-hexagon. Length 8 $\frac{3}{4}$ ". Chrome-Vanadium Steel and plated. Not guaranteed.

Net Price.....\$1.35

No. 4539

Pontiac Steering Gear Eccentric Adjusting Wrench. $1\frac{1}{16}$ " double-hexagon opening. Head is $\frac{3}{16}$ " thick. Overall length 5 $\frac{7}{16}$ ". Chrome-Vanadium steel and plated. Not guaranteed.

Net Price.....\$1.15

No. 4540

For 1934 Pontiac Steering Gear Eccentric Lock Nut. Has $\frac{5}{8}$ " double-hexagon openings in both ends. Overall length, 10". Chrome-Vanadium Steel and plated.

Net Price.....\$1.35

MISCELLANEOUS SPECIAL WRENCHES

No. 4563

Specially designed Spanner for 1934 Pontiac Front Spring Housing Retainer Cap. Length overall $17\frac{1}{2}$ ". Drop forged from Chrome-Vanadium Steel and plated.

Net Price \$2.35

No. 4564

For Oldsmobile and Pontiac Brake Anchor Pin Nuts. Box end with $15\frac{1}{16}$ " double-hexagon opening used on rear brakes. Open end with $15\frac{1}{16}$ " opening used on front brakes. Length, $15\frac{1}{2}$ " Chrome-Vanadium Steel and plated.

Net Price \$2.35

No. 4565

Used to adjust 1934 Chevrolet and Pontiac Steering Arm Nut. Length overall, $17\frac{3}{4}$ ". Openings in both ends, $1\frac{1}{4}$ " double-hexagon. Made of Chrome-Vanadium Steel and plated.

Net Price \$2.35

No. 4566

Designed for Buick and Oldsmobile upper and lower Knuckle Support Yoke Nuts. Has $1\frac{1}{4}$ " and $1\frac{1}{16}$ " double-hexagon openings. Length, 19" overall. Chrome-Vanadium Steel and plated.

Net Price \$4.00

No. 4567

Special Wrench for 1934 Chrysler Knuckle Support Yoke Nuts. Length overall 16" and has a $1\frac{1}{4}$ " double-hexagon opening. Chrome-Vanadium Steel and plated.

Net Price \$2.00

No. 4575

For turning front spring centering nut in or out. Has a $\frac{1}{2}$ " square drive. Chrome-Vanadium Steel and plated. Conveniently used with Bonney No. 4097 Ratchet Handle.

Net Price \$1.35

Nos. 7940, 7941, 7942, 7944.

Numbers 7940 and 7941 for use on Ford "AA" Truck Rim Nuts. 7944 for Rim Nuts on other makes of trucks. No. 7940 has $13\frac{1}{16}$ inch square and $1\frac{1}{8}$ inch hexagon openings. No. 7941— $15\frac{1}{16}$ inch square and $1\frac{1}{2}$ inch hexagon openings. No. 7944— $\frac{7}{8}$ inch and $1\frac{1}{16}$ inch hexagon openings. No. 7942 Hardle and Pry Bar, 20 inches long.

Net Prices

No. 7940 .. \$1.50	No. 7941 .. \$1.50
No. 7942 .. 0.65	No. 7944 .. 1.50

No. 2553

Bonney Rim Wrench, made of Chrome-Vanadium Steel has double-hexagon openings $\frac{5}{8}$ inch, $\frac{3}{4}$ inch, $1\frac{3}{16}$ inch and $\frac{7}{8}$ inch.

Net Price \$2.35

No. 2545—Spanner for Chrysler 75 and 80 Water Pump. See Page 33.
Net Price \$0.60

No. T50—Special Tool for adjusting Zenith carburetor jets. Openings $\frac{3}{32}$ inch and $\frac{5}{16}$ inch. See Page 33.
Net Price \$0.75

No. 2854—Special Box Wrench for All-American Oakland, Pontiac and Chrysler "4" cylinder starter cap screws. Has $\frac{5}{8}$ inch double-hexagon opening. See Page 32.

Net Price \$0.95



4563



4564



4565



4566



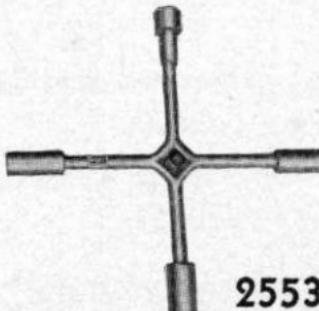
4567



4575



7940 to 7944

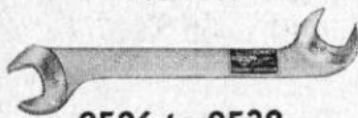


2553

BRAKE WRENCHES



1721BR



2526 to 2538



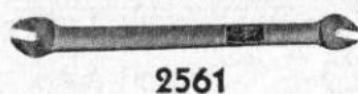
2534



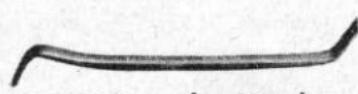
2535 and 2535A



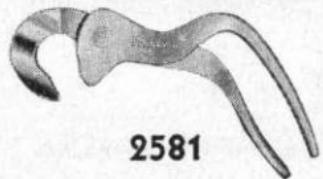
2539 and 2539A



2561



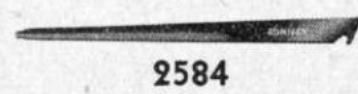
2566 and 2566A



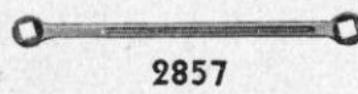
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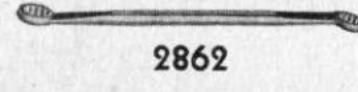
2583



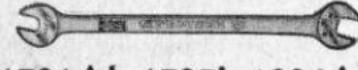
2584



2857



2862



1731AL-1735L-1034AL

No. 1721BR

For Bendix Brake Eccentric Adjustment. Openings $\frac{1}{4}$ " and $\frac{5}{16}$ " on one end, $\frac{5}{16}$ " on the other end. Length $4\frac{1}{8}$ ". Net Price \$0.35

Nos. 2526 to 2538

No. 2537 opening $\frac{1}{2}$ " on $22\frac{1}{2}$ " end, $\frac{9}{16}$ " on 60° end. No. 2538 opening $\frac{9}{16}$ " on $22\frac{1}{2}$ " end, $\frac{1}{2}$ " on 60° end. No. 2526 opening $\frac{5}{8}$ " on $22\frac{1}{2}$ " end, $\frac{5}{8}$ " on 60° end. No. 2526A opening $\frac{9}{16}$ " on $22\frac{1}{2}$ " end, $\frac{9}{16}$ " on 60° end. No. 2526B opening $1\frac{1}{16}$ " on $22\frac{1}{2}$ " end, $1\frac{1}{16}$ " on 60° end. $6\frac{1}{4}$ " long, heads $\frac{7}{32}$ thick. Net Price \$0.95

No. 2534

Designed for Chrysler Cars, $3\frac{1}{16}$ " long, $\frac{5}{8}$ " opening, head $\frac{7}{32}$ " thick. Net Price \$0.60

Nos. 2535 and 2535A

No. 2535 for Dodge cars, $\frac{7}{8}$ " opening. No. 2535A for Hupmobile, 1926-27, $\frac{3}{4}$ " opening. Net Price \$0.95

No. 2539 and 2539A

For Bendix Brakes. Openings, small end $\frac{1}{4}$ " and $\frac{1}{2}$ ", large end $\frac{3}{4}$ ". No. 2539A same as No. 2539 except openings $\frac{5}{16}$ " and $\frac{1}{2}$ " and $\frac{9}{16}$ " respectively. Net Price \$1.20

No. 2561

Specially designed for Bendix Brake Eccentric, $\frac{3}{16}$ " and $\frac{1}{4}$ " openings. Net Price \$1.20

No. 2862

Used to adjust anchor bolts on Bendix Brakes. Length $15\frac{5}{8}$ ". Double-hexagon openings $1\frac{5}{16}$ " and $1\frac{1}{16}$ ". Net Price \$2.20

No. 2566 and 2566A

Bendix Brake Tools for Bendix Brakes as used on Hudson and Essex cars. No. 2566A for 1933 Essex Terraplane, "6" and "8". Net Price \$0.45

No. 2581

For all Steel Draulic Brakes. Overall length $5\frac{1}{2}$ ". Net Price \$1.35

No. 2583

Brake Spring Plier designed to remove and replace internal brake springs on all cars except Fords. Net Price \$2.25

No. 2584

Brake Spring Tool. Designed for installing and removing brake springs. May be used on vertical and horizontal or springs applied over studs. "V" channel used for installing. Hook used for prying spring off. Back of channel used for installing springs over studs. Licensed under Patent No. 1889167. Net Price \$0.25

No. 2857

For Brake Adjusting on Ford A and AA. $\frac{7}{16}$ " and $\frac{1}{2}$ " square openings. Net Price \$1.05

Long Engineers' Wrenches

For brake adjustment, spring clips, etc.

No. 1731AL. Length 15", thickness $\frac{3}{8}$ ", openings $\frac{3}{4}$ " and $\frac{1}{2}$ " \$2.50

No. 1735L. Length 16", thickness $1\frac{1}{16}$ ", openings 1" and $1\frac{1}{8}$ " \$3.35

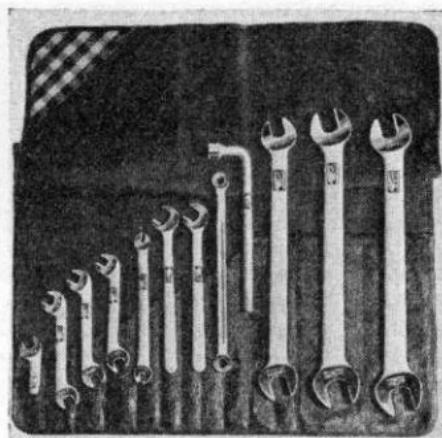
No. 1034AL. Length 16", thickness $1\frac{1}{32}$ ", openings $1\frac{5}{16}$ " and $1\frac{1}{16}$ " \$3.35

BRAKE WRENCH SET No. 37

Every mechanic's tool kit should contain an ample assortment of brake wrenches. The No. 37 Set is ideal for this purpose. It is complete and will handle brake adjustments on a very large number of passenger cars and trucks. Contains one each of twelve wrenches, Nos. 2534, 2526, 2537, 2538, 2561, 2535, 2535A, 2857, 2103, 1731AL, 1034AL and 1735L.

NET PRICES

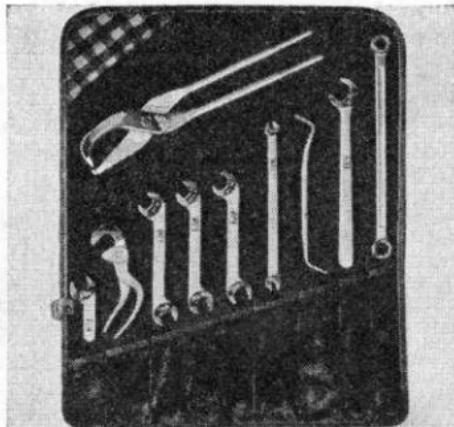
In Cardboard Box.....	\$15.95
In Leatherette Roll.....	17.10

**BRAKE WRENCH SET No. 38**

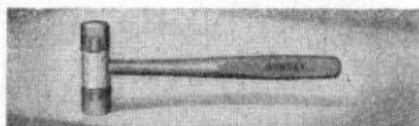
Many modern braking systems require specially designed Brake Wrenches. The No. 38 Set was assembled to fill these requirements. It contains one each of the following Brake Wrenches, Nos. 2526, 2526A, 2526B, 2534, 2535, 2561, 2857. Brake Pliers Nos. 2581 and 2583 and Brake Tool No. 2566 are also included. Don't be without this set. It is essential to doing a good job.

NET PRICES

In Cardboard Box.....	\$ 9.60
In Leatherette Roll.....	10.30

**BONNEY HAMMERS****BALL PEIN**

The octagon shaped heads of Bonney Ball Pein Hammers are drop-forged from special hammer steel, while the handles are made of fine, straight-grained hickory. The handles are dipped to toughen the eye end and are forced into the head and securely locked in position by two steel wedges.

SOFT FACE

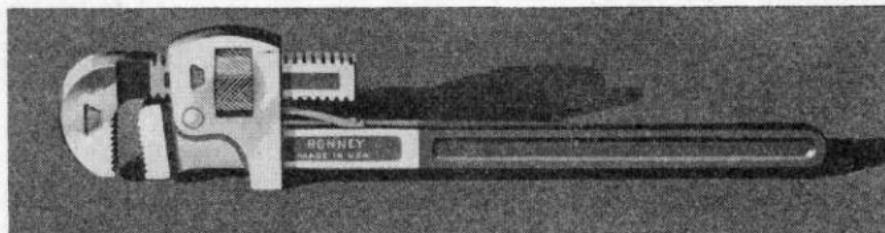
Bonney Soft Face Hammers are especially useful for fitting piston pins, wrist pins and for body and fender work. The tips are made of a tough, transparent material. New tips may be installed by turning the old tip loose with a pipe wrench and pressing on the new tip. The hammer is properly balanced and the hickory handle is securely locked in the head.

No.	Weight	Length	Net Price
*PH2	3 1/2 oz.	11"	\$1.00
PH6	5/4 lb.	14"	1.10
PH17	1 lb.	14 1/2"	1.15
PH19	1 1/2 lb.	16"	1.35
PH10	2 lb.	16"	1.50
PH13	3 lb.	16"	2.00

*Known as a gasket hammer.

No.	Weight	Net Price
PH15	5/2 lb.	\$1.50
PH20	1 lb.	1.75
Extra Tip, Each		.45

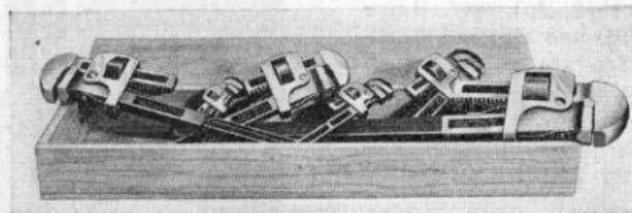
STILLSON WRENCHES



Bonney Stillson Wrenches are correctly designed and sturdily built. The handles and jaws are drop-forged and specially heat treated to produce tough, durable teeth. The knurled adjusting nut is machined from solid stock, to assure smooth working surfaces. The frame is a semi-steel casting. All parts fit accurately and snugly to produce maximum rigidity and still allow freedom of adjustment.

Length	Grips Pipe	Net Price	Length	Grips Pipe	Net Price
6"	1/8" to 1/2"	\$0.70	18"	1/4" to 2"	\$1.95
8"	1/8" to 3/4"	.80	24"	1/4" to 2 1/2"	3.00
10"	1/8" to 1"	1.05	36"	1/4" to 3 1/2"	6.45
14"	1/4" to 1 1/2"	1.40			

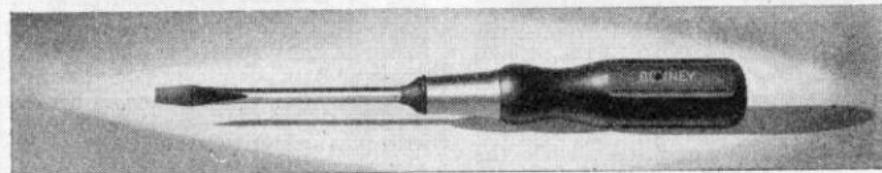
STILLSON WRENCH ASSORTMENT No. 77



The No. 77 Stillson Wrench Assortment was carefully selected to cover the complete range of requirements of Stillson Wrenches. It contains one each of the 6 inch, 8 inch, 10 inch, 14 inch, 18 inch and 24 inch Wrenches listed above. Packed in a strong wood box. Weight, 18 lb.

NET PRICE.....\$8.00

WOOD HANDLE SCREW DRIVERS



These Screw Drivers are made to stand up under the severe use to which mechanics subject such tools. The blades are drop-forged and carefully heat treated. The tips are accurately ground. A bolster firmly anchors the blade to the handle. The hardwood handles are fluted to provide a firm, comfortable grip.

ROUND SHANK

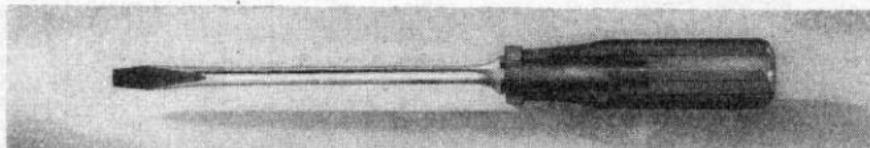
Number	Size Blade	Width of Tip.	Net Price
W03	3"	7/16"	.35
W04	4"	1/4"	.40
W06	6"	5/16"	.50
W08	8"	5/8"	.70
W010	10"	11/16"	.85

The handles of Bonney Wood Handle Screw Drivers are stained a deep cherry color. The blades are full finished.

SCREW DRIVERS

Bonney Screw Drivers have forged one-piece blades except the Electricians' and Pocket size. They are carefully heat treated, ground and polished. The tough composition handles are non-conductors of electricity. Blades are firmly anchored in handles . . . and will not turn loose.

ROUND SHANK



Number	Size	Width of Tip	Net Price
04	4"	1/4"	\$0.75
06	6"	5/16"	1.00
08	8"	3/8"	1.25
012	12"	7/16"	1.50

The Forged one-piece blades are forced into the handles against upset shoulders to assure a tight fit. Blades are heat treated. Handles tough transparent composition.

SQUARE SHANK



Number	Size	Width of Tip	Net Price
S04	4"	5/16"	\$0.80
S06	6"	7/16"	1.10
S08	8"	1/2"	1.35
S012	12"	1 1/2"	1.65

ELECTRICIANS'

Illustration below E03



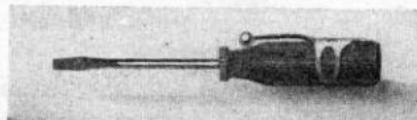
Note E02 and E03: When testing, brilliant orange flash shows plug O.K. Stringy flash . . . plug partly fouled.

Completely shorted plug . . . no flash.

Number	Size	Width of Tip	Net Price
003	3"	5/16"	\$0.60
006	6"	3/16"	.75
0010	10"	3/16"	.85
E02	2 1/4"	1/8"	.50
E03	3"	5/16"	1.00
E03 Extra Neon Tube Each			.25

Widely used in electrical work. Same quality and finish as other Bonney Screw Drivers. E02 and E03 are equipped with Neon Tube in handle for spark plug testing.

POCKET SIZE



Very handy! Clip for holding in pocket comes with each driver. Blade heat treated. Handle made of non-conducting composition.

No.	Size	Width of Tip	Net Price
001	2"	3/8"	\$0.25

ADJUSTING



Strong and sturdy! The handle fits comfortably in the hand and provides a strong grip. Handle transparent and non-conductor of electricity.

No.	Size	Width of Tip	Net Price
S01	1 3/4"	1/4"	\$0.50
S02	1"	1/4"	.45

CHISELS

Bonney Chisels and Punches listed on these pages are made of special alloy steel, are forged and heat treated. The bits are hard and tough enough to work on any untempered material, but still soft enough to be resharpened with a file.

FLAT CHISELS



No.	Size Stock	Width of Cut	Length	Net Price
C2	$\frac{3}{8}''$	$\frac{1}{2}''$	$5\frac{1}{2}''$	\$0.45
C3	$\frac{1}{2}''$	$\frac{5}{8}''$	6"	.50
C4	$\frac{5}{8}''$	$\frac{3}{4}''$	$6\frac{1}{2}''$	.65
C5	$\frac{3}{4}''$	$\frac{7}{8}''$	$7\frac{1}{2}''$	.80
C6	$\frac{7}{8}''$	1"	8"	1.00
C7	1"	$1\frac{1}{4}''$	$8\frac{1}{2}''$	1.25

LONG FLAT CHISEL



No.	Size Stock	Width of Cut	Length	Net Price
C10	$\frac{3}{4}''$	$\frac{7}{8}''$	14"	\$1.25

CAPE CHISELS



No.	Size Stock	Width of Cut	Length	Net Price
C12	$\frac{1}{2}''$	$\frac{1}{4}''$	6"	\$0.55
C13	$\frac{5}{8}''$	$\frac{3}{8}''$	7"	.65

DIAMOND POINT CHISELS



No.	Size Stock	Width of Cut	Length	Net Price
C15	$\frac{1}{2}''$	$\frac{1}{4}''$	6"	\$0.55
C16	$\frac{5}{8}''$	$\frac{3}{8}''$	7"	.65

ROUND NOSE CHISELS



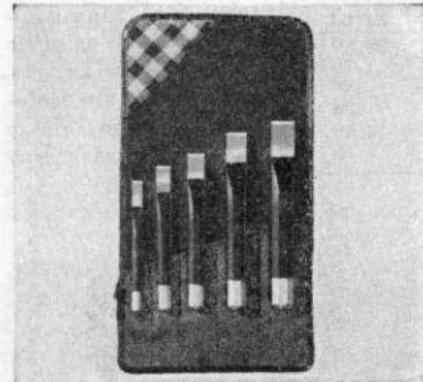
No.	Size Stock	Point Diam.	Length	Net Price
C18	$\frac{1}{2}''$	$\frac{1}{4}''$	6"	\$0.55
C19	$\frac{5}{8}''$	$\frac{3}{8}''$	7"	.65

RIVET BUSTER



No.	Size Stock	Width of Cut	Length	Net Price
C36	$\frac{3}{4}''$	$\frac{5}{8}''$	12"	\$1.25

FLAT CHISEL SET No. C45



The C45 Set completely covers the range of chisel requirements of the average mechanic. It contains five Flat Chisels, Nos. C2, C3, C4, C5 and C6, having width of cut of $\frac{1}{2}''$, $\frac{5}{8}''$, $\frac{3}{4}''$, $\frac{7}{8}''$ and 1" respectively. They are forged from high quality alloy steel and are heat treated to assure a hard, tough working bit. Their octagon handles offer an easy, secure grip.

NET PRICES

In Cardboard Box.....	\$3.00
In Leatherette Roll.....	3.40

LINING UP PUNCHES

No. 8386 Lining-up Punch— $\frac{5}{8}''$ stock, $\frac{5}{16}''$ point. Length 15".	
NET PRICE.....	\$1.50
No. 8385 Lining-up Punch— $\frac{3}{4}''$ stock, $\frac{1}{8}''$ point. Length 18".	
NET PRICE.....	\$2.25

PUNCHES**PIN PUNCHES**

No.	Size Stock	Point Diam.	Length	Net Price
C28	$\frac{3}{8}''$	$\frac{1}{8}''$	5"	\$0.40
C29	$\frac{1}{2}''$	$\frac{3}{16}''$	$5\frac{5}{8}''$	.45
C30	$\frac{5}{8}''$	$\frac{1}{4}''$	$6\frac{3}{8}''$	.60

**LONG TAPER PUNCHES**

No.	Size Stock	Point Diam.	Length	Net Price
C25	$\frac{3}{8}''$	$\frac{5}{32}''$	8"	\$0.55
C26	$\frac{1}{2}''$	$\frac{3}{16}''$	9"	.60

**SOLID PUNCHES**

No.	Size Stock	Point Diam.	Length	Net Price
C21	$\frac{3}{8}''$	$\frac{1}{16}''$	$5\frac{1}{8}''$	\$0.40
C22	$\frac{1}{2}''$	$\frac{3}{32}''$	$6\frac{1}{4}''$	.45
C23	$\frac{5}{8}''$	$\frac{1}{8}''$	7"	.60

**PRICK PUNCH**

No.	Size Stock	Length	Net Price
C32	$\frac{3}{8}''$	5"	\$0.35

**CENTER PUNCH**

No.	Size Stock	Length	Net Price
C34	$\frac{3}{8}''$	5"	\$0.35

**PRY or PINCH BAR**

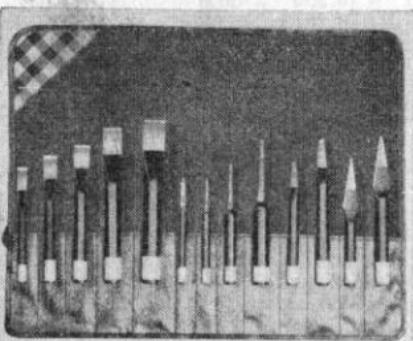
No.	Size Stock	Length	Net Price
C38	$\frac{5}{8}''$	16"	\$1.40

**CHISEL and PUNCH SET No. C46**

The No. C46 Set provides the mechanic with a compact and complete assortment of chisels and punches to cover his every day requirements. Nine Chisels and four Punches make up the set, as follows: Flat Chisels Nos. C2, C3, C4, C5, C6; Cape Chisels Nos. C12 and C13 and Diamond Point Chisels Nos. C15 and C16; Pin Punches Nos. C28, C29, C30 and Center Punch C34 make up the remainder of the set.

NET PRICES

In Cardboard Box	\$6.65
In Leatherette Roll	7.15

**CHISEL and PUNCH SET No. C47**

For mechanics who require a complete line of punches and chisels there is no better assortment than the Bonney C47 Set. It contains thirteen chisels, ten punches, a Rivet Buster and a Pry or Pinch Bar. Chisels included—Flat Chisels Nos. C2, C3, C4, C5, C6, C7; Cape Chisels C12 and C13; Long Flat Chisel C10; Diamond Point Chisels Nos. C15 and C16; Round Nose Chisels C18 and C19. Punches included—Long Taper Punches Nos. C25 and C26; Prick Punch C32; Solid Punches C21, C22, C23; Pin Punches C28, C29, C30; Center Punch C34. Rivet Buster C36 and Pry or Pinch Bar C38.

NET PRICES

In Cardboard Box	\$15.00
In Leatherette Roll	16.20

Decimal Equivalents of Fractions of an Inch and Decimal Designations

Frc. tion.	Deci- mals	Designations	Frc. tion.	Deci- mals	Designations
	0.0001	One ten-thousandth	$\frac{11}{64}$	0.3437	Eleven thirty-seconds
	0.00025	One-quarter thousandth	$\frac{23}{64}$	0.3593	Twenty-three sixty-fourths
	0.0005	One-half thousandth			Three eighths
	0.00075	Three-quarter thousandth	$\frac{3}{8}$	0.375	Twenty-five sixty-fourths
	0.001	One thousandth	$\frac{25}{64}$	0.3906	Thirteen thirty-seconds
	0.00125	One and one quarter thousandth	$\frac{13}{32}$	0.4062	Twenty-seven sixty-fourths
	0.0015	One and one half thousandth	$\frac{27}{64}$	0.4218	Seven sixteenths
	0.00175	One and three-quarters thousandth	$\frac{7}{16}$	0.4375	Twenty-nine sixty-fourths
	0.002	Two thousandths	$\frac{15}{64}$	0.4687	Fifteen thirty-seconds
	0.0025	Two and a half thousandths	$\frac{31}{64}$	0.4843	Thirty-one sixty-fourths
	0.003	Three thousandths	$\frac{1}{2}$	0.500	One-half
	0.005	Five thousandths	$\frac{33}{64}$	0.5156	Thirty-three sixty-fourths
	0.0075	Seven and one-half thousandths	$\frac{17}{64}$	0.5312	Seventeen thirty-seconds
	0.010	Ten one-thousandths	$\frac{35}{64}$	0.5468	Thirty-five sixty-fourths
	0.0125	Twelve and one-half thousandths	$\frac{19}{32}$	0.5625	Nine sixteenths
	0.015	Fifteen thousandths	$\frac{41}{64}$	0.5781	Thirty-seven sixty-fourths
	0.0156	One sixty-fourth	$\frac{21}{64}$	0.5937	Nineteen thirty-seconds
	0.020	Twenty thousandths	$\frac{43}{64}$	0.6093	Thirty-nine sixty-fourths
	0.025	Twenty-five thousandths	$\frac{11}{16}$	0.625	Five-eighths
	0.030	Thirty thousandths	$\frac{45}{64}$	0.6406	Forty-one sixty-fourths
	0.0312	One thirty-second	$\frac{23}{32}$	0.6562	Twenty-one thirty-seconds
	0.035	Thirty-five thousandths	$\frac{47}{64}$	0.6718	Forty-three sixty-fourths
	0.040	Forty thousandths	$\frac{3}{4}$	0.6875	Eleven sixteenths
	0.0468	Three sixty-fourths	$\frac{49}{64}$	0.7031	Forty-five sixty-fourths
	0.0625	One sixteenth	$\frac{25}{32}$	0.7187	Twenty-three thirty-seconds
	0.0781	Five sixty-fourths			Forty-seven sixty-fourths
	0.0937	Three thirty-seconds	$\frac{51}{64}$	0.7343	Three fourths
	0.1093	Seven sixty-fourths	$\frac{13}{16}$	0.750	Forty-nine sixty-fourths
	0.125	One eighth	$\frac{53}{64}$	0.7656	Twenty-five thirty-seconds
	0.1406	Nine sixty-fourths	$\frac{27}{32}$	0.7812	Fifty-one sixty-fourths
	0.1562	Five thirty-seconds	$\frac{55}{64}$	0.7968	Thirteen sixteenths
	0.1718	Eleven sixty-fourths	$\frac{15}{16}$	0.8125	Fifty-three sixty-fourths
	0.1875	Three sixteenths	$\frac{57}{64}$	0.8281	Twenty-seven thirty-seconds
	0.2031	Thirteen sixty-fourths	$\frac{7}{8}$	0.8437	Fifty-five sixty-fourths
	0.2187	Seven thirty-seconds	$\frac{59}{64}$	0.8593	Seven eighths
	0.2343	Fifteen sixty-fourths	$\frac{17}{16}$	0.875	Fifty-seven sixty-fourths
	0.250	One fourth	$\frac{21}{32}$	0.8906	Twenty-nine thirty-seconds
	0.2656	Seventeen sixty-fourths	$\frac{59}{64}$	0.9062	Fifty-nine sixty-fourths
	0.2812	Nine thirty-seconds	$\frac{15}{16}$	0.9218	Fifteen sixteenths
	0.2968	Nineteen sixty-fourths	$\frac{61}{64}$	0.9375	Sixty-one sixty-fourths
	0.3125	Five sixteenths	$\frac{31}{32}$	0.9531	Thirty-one thirty-seconds
	0.3281	Twenty-one sixty-fourths	$\frac{63}{64}$	0.9687	Sixty-three sixty-fourths
				0.9843	

OTHER BONNEY PRODUCTS

In addition to the lines of Alloy Wrenches and Tools shown in this catalog, Bonney makes a *complete* line of Carbon Steel Wrenches.

An Invitation to Mechanics

A varied and complete line of wrenches for special jobs is also produced. Many of these it has been impossible to list. If you require a special wrench that is not listed or have an idea for one, we invite you to write direct to the factory giving full details. It is very likely that we have produced one for the job.

Bonney Carbon Steel Wrenches

Bonney Carbon Steel Wrenches are made from selected Carbon Steel, are

carefully heat treated and enameled. They are widely used in Industrial work, on tractors, farm machinery and similar jobs. Write for catalog describing and illustrating this line.

Bonney "Expert" Quoits

The game of Quoits is interesting and one of skill. It is very popular in many sections of the country.

Bonney "Expert" Quoits bring out the "best" in the player's skill. They are designed for use by quoit clubs, experts and men who want quoits of uniform size, shape and weight.

"Expert" Quoits will withstand years of use. They are drop forged from special "SiMang" Steel and are heat treated by an exclusive process developed by Bonney. Write for complete information and prices.

Standard Drill Sizes

Up to 1 inch

Drill	Diam. Inches	Drill	Diam. Inches	Drill	Diam. Inches	Drill	Diam. Inches
80	.0135	$\frac{1}{32}$	.0937	6	.2040	$\frac{15}{64}$	.4062
79	.0145	41	.0960	5	.2055	Z	.4130
$\frac{1}{16}$	.0156	40	.0980	4	.2090	$\frac{27}{64}$	.4219
78	.0160	39	.0995	3	.2130	$\frac{7}{16}$	.4375
77	.0180	38	.1015	$\frac{7}{16}$	.2187	$\frac{29}{64}$	.4531
76	.0200	37	.1040	2	.2210	$\frac{15}{32}$	.4687
74	.0225	36	.1065	1	.2280	$\frac{21}{64}$	.4843
73	.0240	$\frac{1}{4}$	.1094	A	.2340	$\frac{1}{2}$	.5000
72	.0250	35	.1100	$\frac{15}{64}$	.2344	$\frac{33}{64}$	.5156
71	.0260	34	.1110	B	.2380	$\frac{17}{32}$	.5312
70	.0280	33	.1130	C	.2420	$\frac{35}{64}$	.5469
69	.0292	32	.1160	D	.2460	$\frac{9}{16}$	.5625
68	.0310	31	.1200	E	.2500	$\frac{37}{64}$	.5781
$\frac{1}{16}$	.0313	$\frac{1}{8}$	.1250	$\frac{1}{4}$	.2500	$\frac{19}{32}$	.5937
67	.0320	30	.1285	F	.2570	$\frac{39}{64}$	.6094
66	.0330	29	.1360	G	.2610	$\frac{5}{8}$	.6250
65	.0350	28	.1405	$\frac{17}{64}$	.2656	$\frac{41}{64}$	.6406
64	.0360	$\frac{9}{64}$	.1406	H	.2660	$\frac{21}{32}$	.6562
63	.0370	27	.1440	I	.2720	$\frac{43}{64}$	.6719
62	.0380	26	.1470	J	.2770	$\frac{11}{16}$	.6875
61	.0390	25	.1495	K	.2810	$\frac{45}{64}$	.7031
60	.0400	24	.1520	$\frac{9}{16}$	.2812	$\frac{23}{32}$	.7187
59	.0410	23	.1540	L	.2900	$\frac{47}{64}$	.7344
58	.0420	$\frac{5}{32}$	.1562	M	.2950	$\frac{3}{4}$	.7500
57	.0430	22	.1570	$\frac{19}{64}$	.2969	$\frac{49}{64}$	.7656
56	.0465	21	.1590	N	.3020	$\frac{26}{32}$	.7812
$\frac{1}{16}$	.0469	20	.1610	$\frac{5}{16}$	.3125	$\frac{51}{64}$	.7969
55	.0520	19	.1660	O	.3160	$\frac{15}{16}$	.8125
54	.0550	18	.1695	P	.3230	$\frac{53}{64}$	.8281
53	.0595	$\frac{1}{16}$	.1719	$\frac{21}{64}$	.3281	$\frac{27}{32}$	.8437
$\frac{1}{16}$	.0625	17	.1730	Q	.3320	$\frac{55}{64}$	.8594
52	.0635	16	.1770	R	.3390	$\frac{7}{8}$	.8750
51	.0670	15	.1800	$\frac{11}{64}$	.3437	$\frac{57}{64}$	.8906
50	.0700	14	.1820	S	.3480	$\frac{29}{32}$	.9062
49	.0730	13	.1850	T	.3580	$\frac{59}{64}$	.9219
48	.0760	$\frac{3}{16}$	.1875	$\frac{23}{64}$	.3594	$\frac{15}{16}$	.9375
$\frac{1}{16}$	.0781	12	.1890	U	.3680	$\frac{61}{64}$	.9531
47	.0785	11	.1910	$\frac{5}{8}$	.3750	$\frac{31}{32}$	.9687
46	.0810	10	.1935	V	.3770	$\frac{63}{64}$	.9844
45	.0820	9	.1960	W	.3860	1	1.0000
44	.0860	8	.1990	$\frac{25}{64}$	.3906		
43	.0890	7	.2010	X	.3970		
42	.0935	$\frac{15}{64}$	.2031	Y	.4040		

Determining the Correct Drill for Tapped Holes

A simple and easy method to determine the correct drill for a tapped hole is as follows: use a screw pitch gage on the screw or bolt you expect to use on the tapped hole. The screw pitch gage will give you the type and size of the thread. Then refer to the table at the right to find the correct size drill for the job.

U. S. S.			S. A. E.		
Diam. of Tap in inches	Threads per inch	Size of Drill No.	Diam. of Tap in inches	Threads per inch	Size of Drill No.
$\frac{1}{4}$	20	8	$\frac{1}{4}$	28	3
$\frac{5}{16}$	18	$\frac{1}{4}$	$\frac{5}{16}$	24	$\frac{9}{16}$
$\frac{3}{8}$	16	$\frac{5}{16}$	$\frac{3}{8}$	24	$\frac{11}{16}$
$\frac{7}{16}$	14	$\frac{23}{64}$	$\frac{7}{16}$	20	$\frac{25}{64}$
$\frac{1}{2}$	13	$\frac{27}{64}$	$\frac{1}{2}$	20	$\frac{29}{64}$
$\frac{9}{16}$	12	$\frac{31}{64}$	$\frac{9}{16}$	18	$\frac{33}{64}$
$\frac{5}{8}$	11	$\frac{17}{32}$	$\frac{5}{8}$	18	$\frac{37}{64}$
$\frac{3}{4}$	10	$\frac{21}{64}$	$\frac{3}{8}$	16	$\frac{11}{16}$
$\frac{7}{8}$	9	$\frac{49}{64}$	$\frac{7}{8}$	14	$\frac{13}{16}$
1	8	$\frac{7}{8}$	1	14	$\frac{15}{16}$

**Chart of Wrench and Socket Openings
and Sizes of Bolts and Nuts
which they Fit**

Wrench Opening in Inches	The Dimensions given below are the outside diameters of the threads in inches			
	U. S. S.		American Std.	
	S.A.E. Std. Screws and Nuts	Nuts	Cap Screws	Nuts
$\frac{3}{16}$				Nos. 2 & 3
$\frac{7}{32}$				
$\frac{3}{8}$				No. 4
$\frac{9}{32}$				
$\frac{5}{16}$		$\frac{3}{8}$	$\frac{3}{8}$	Nos. 5 & 6
$1\frac{1}{16}$				No. 8
$\frac{3}{4}$			$\frac{3}{8}$	No. 10
$\frac{7}{16}$	$\frac{3}{8}$	$\frac{3}{8}$	$\frac{3}{8}$	$\frac{3}{8}$
$\frac{1}{2}$	$\frac{3}{8}$	$\frac{3}{8}$	$\frac{3}{8}$	$\frac{3}{8}$
$\frac{9}{16}$	$\frac{3}{8}$	$\frac{3}{8}$	$\frac{3}{8}$	$\frac{3}{8}$
$1\frac{9}{32}$		$\frac{3}{8}$		
$\frac{5}{8}$	$\frac{3}{8}$		$\frac{3}{8}$	$\frac{3}{8}$
$1\frac{1}{16}$		$\frac{3}{8}$		
$\frac{3}{4}$	$\frac{3}{8}$		$\frac{3}{8}$	$\frac{3}{8}$
$2\frac{5}{32}$		$\frac{3}{8}$		
$1\frac{15}{32}$			$\frac{3}{8}$	$\frac{3}{8}$
$\frac{7}{8}$	$\frac{3}{8}$	$\frac{3}{8}$	$\frac{3}{8}$	$\frac{3}{8}$
$1\frac{15}{32}$	$\frac{3}{8}$		$\frac{3}{8}$	
$2\frac{1}{16}$		$\frac{3}{8}$		
1	$1\frac{1}{16}$		$\frac{3}{4}$	$\frac{3}{4}$
$1\frac{1}{16}$	$\frac{3}{4}$	$\frac{5}{8}$		
$1\frac{3}{8}$			$\frac{7}{8}$	$\frac{3}{4}$
$1\frac{1}{16}$				$\frac{3}{8}$
$1\frac{1}{4}$	$\frac{3}{8}$	$\frac{3}{4}$	1	
$1\frac{5}{16}$				$\frac{7}{8}$
$1\frac{3}{8}$			1 $\frac{1}{8}$	
$1\frac{7}{16}$	1	$\frac{7}{8}$		
$1\frac{1}{2}$			1 $\frac{1}{4}$	1
$1\frac{1}{16}$				$1\frac{1}{8}$
$1\frac{5}{8}$	1 $\frac{1}{8}$	1	1 $\frac{1}{8}$	
$1\frac{11}{16}$				1 $\frac{1}{8}$
$1\frac{3}{4}$				1 $\frac{1}{4}$
$1\frac{15}{16}$	1 $\frac{1}{4}$	1 $\frac{1}{8}$		
$1\frac{7}{8}$				1 $\frac{1}{4}$
2	1 $\frac{3}{8}$	1 $\frac{1}{4}$		
$2\frac{1}{16}$				
$2\frac{3}{8}$				
$2\frac{5}{16}$	1 $\frac{1}{2}$	1 $\frac{1}{8}$		
$2\frac{3}{4}$				1 $\frac{1}{2}$
$2\frac{1}{8}$				
$2\frac{3}{8}$		1 $\frac{1}{2}$		
$2\frac{7}{16}$				
$2\frac{3}{2}$				
$2\frac{9}{16}$		1 $\frac{5}{8}$		
$2\frac{5}{8}$				1 $\frac{3}{4}$
$2\frac{11}{16}$	*			
$2\frac{3}{4}$		1 $\frac{1}{4}$		
$2\frac{15}{16}$		1 $\frac{7}{8}$		
$3\frac{1}{8}$		2		

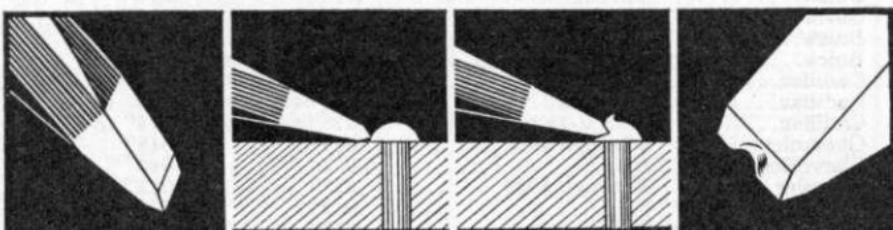
Chart for Setting**Spark Plug and Distributor Gaps**

Make of Car	MODEL	Spark Plug Gap	Distributor Gap
Austin	All	.030"	.020"
Buick	Through 1931	.025"	.018"
Buick	All 1932	.020" to .025"	.020"
Buick	1933 H. C. Head	.020" to .025"	.015"
Buick	1933 L. C. Head	.025" to .030"	.015"
Cadillac	Through 1932	.025" to .028"	.0225"
Cadillac	1933 V-8	.025" to .028"	.018" to .024"
Cadillac	1933 V-12 and V-16	.025" to .028"	.014" to .018"
Chevrolet	Through 1932	.024"	.018"
Chevrolet	1933	.032"	.018"
Chrysler	Through 1930	.025"	.022"
Chrysler	1931	.022"	.020"
Chrysler	1932	.028"	.020"
Chrysler	1933	.025"	.018"
Continental	1933 Beacon and Flyer	.025"	.022"
Continental	1933 Ace	.025"	.018"
DeSoto	Through 1930	.025"	.020"
DeSoto	1931	.022"	.020"
DeSoto	1932	.028"	.020"
DeSoto	1933	.025"	.020"
Dodge	Through 1930	.025"	.020"
Dodge	1931	.022"	.020"
Dodge	1932	.028"	.020"
Dodge	1933	.025"	.018"
Durant	All	.025"	.020"
Essex	To 1930	.020"	.018"
Essex	1930	.022"	.020"
Essex	1931-32	.022"	.020"
Essex	1933	.025"	.020"
Ford	Model T	.025"	.018" to .022"
Ford	Models A, AA	.035"	.018" to .022"
Ford	Model B	.030" to .035"	.018" to .022"
Ford	Model V-8	.025"	.012" to .014"
Franklin	All	.025"	.020"
Graham-Paige	All	.025"	.020"
Graham	All	.025"	.020"
Hudson	All	.022"	.020"
Hupmobile	Eight through 1931	.020" to .022"	.014" to .016"
Hupmobile	Eight 1932	.028" to .030"	.020" to .022"
Hupmobile	Eight 1933	.026" to .030"	.020" to .022"
Hupmobile	Six through 1931	.022" to .025"	.020" to .022"
Hupmobile	Six 1932	.028" to .030"	.015" to .018"
Hupmobile	Six 1933	.028" to .030"	.015" to .018"
LaSalle	All	.025" to .028"	.0225"
Marquette	All	.025"	.018"
Nash	Through 1931	.025"	.020"
Nash	1932-1933	.020"	.020"
Oakland	All	.025"	.018"
Oldsmobile	All	.025"	.022"
Packard	All	.025"	.020"
Plymouth	Through 1930	.025"	.020"
Plymouth	1931	.022"	.020"
Plymouth	1932	.028"	.020"
Plymouth	1933	.025"	.020"
Pontiac	All Six Cylinder	.022"	.022"
Pontiac	1932 Eight	.022"	.016"
Pontiac	1933 Eight	.025"	.018"
Reo	Through 1932	.025"	.020"
Reo	1933 Flying Cloud S2	.025"	.022"
Reo	1933 Royale	.029" to .030"	.022"
Rockne	All	.031"	.021"
Studebaker	All	.025"	.018" to .024"
Whippet	All	.025"	.018"
Willys	All	.027"	.018"
Willys-Overland	All	.027"	.018"
Willys-Knight	All except 95	.025"	.018"
Willys-Knight	Model 95	.020"	.018"

The Proper Use of Chisels and Punches

You will obtain much longer and better service from your chisels and punches by taking care to select the proper one for each job. Follow the above rule and you will find that it will not be necessary to recondition these tools as often as before, or will you damage the chisel or punch. Chisels and punches are designed for certain jobs and give the best results when used on those jobs. For example, a Flat Chisel should never be used to cut off a bolt head or rivet . . . use a cutting chisel such as a Rivet Buster.

When chisels and punches are not abused they may easily be kept in first class condition through occasional redressing with a file. The illustrations below show how a perfectly good chisel can be ruined by improper use.

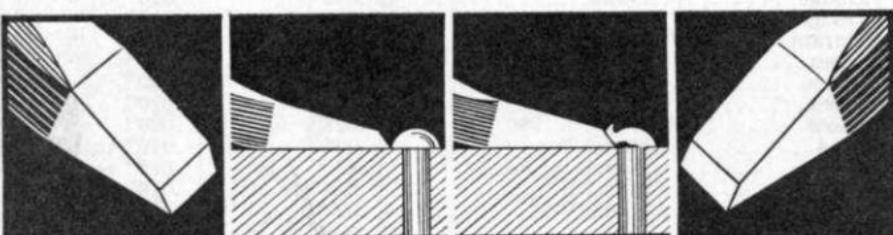


The wrong chisel to use for cutting bolt heads or rivets. Notice the shape of the cutting edge.

When this type chisel is applied it is impossible to get the cutting edge under the head of the bolt or rivet.

When the cut is made the chisel does not take the head off cleanly . . . and it injures the chisel.

Result of using the wrong chisel. The cutting edge has been badly damaged.



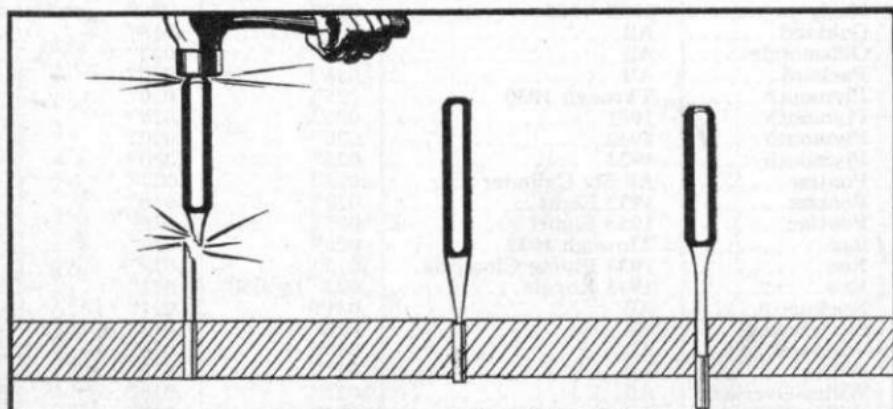
The right chisel to use when cutting bolt heads and rivets. It is generally known as a Rivet Buster.

The flat side or cutting edge of the chisel is placed flush with the bolt or rivet head.

A few taps and the rivet or bolt head is removed. Chisel is not damaged and a good job is done.

Result of using the correct chisel. Cutting edge is not damaged and the job was done quickly.

When and How to Use a Pin Punch



Pin Punches when properly used will give long and efficient service. A simple procedure when using a pin punch is as follows: Don't use it to start the pin. A pin punch is not designed for such service. Use a taper punch. A few taps will generally loosen the pin. Then drive the pin through with the pin punch.

If you use the pin punch for both operations, starting and driving through, you are apt to break it as is shown above.

Chart of Radiator Capacities
 (IN QUARTS)
for Passenger Cars

C A R	M O D E L			
	1931	1932	1933	1934
Auburn.....6.....				17 1/2
Auburn.....8.....	21	19	19	21
Auburn.....12.....		37	37	37
Austin.....	6	6	6	6
Buick.....50.....	12	12	12	15 1/2
Buick.....60.....	15	16	16	18
Buick.....80 and 90.....	19	19	19	23
Cadillac.....355.....	24	26	26	20
Cadillac.....370.....	26	24	24	19
Cadillac.....452.....	28	28	28	23
Chevrolet.....Master.....	10	10	10	11
Chevrolet.....Standard.....			10	10
Chrysler.....6.....	14	16	16	15 1/2
Chrysler.....8.....	16	19	19	23
Cord.....	20	22		
Continental.....Beacon & 41.....			10	10
Continental.....Flyer.....			10	
Continental.....Ace.....			15	
DeSoto.....			14 1/2	20
DeVaux.....		15		
Dodge.....6.....	12 1/2	14 1/2	14 1/2	18 1/2
Dodge.....8.....	14	18	18	
Duesenberg.....	28	32	32	32
Essex.....6.....	19	17	17	18
Essex.....8.....			17	
Ford.....4.....	12	12		
Ford.....8.....		22	22	22
Graham.....6.....	20	20	20	20
Graham.....8.....	20	20	20	20
Hudson.....6.....			17	
Hudson.....8.....		18	18	23
Hupmobile.....216, 321, 417, 421J.....		13	16	
Hupmobile.....222, 322.....		21	21	
Hupmobile.....226, 326.....		24	24	
LaFayette (Nash).....				19
LaSalle.....	24	26	26	18
Lincoln.....V8.....	34	34		
Lincoln.....V12.....		34		32
Lincoln.....V12-145.....			34	
Lincoln.....V12-136.....			32	
Marmon.....8.....	28	28		
Marmon.....16.....	32	34	34	34
Nash.....6.....	12	15	19	17 1/2
Nash.....Standard 8.....	15	17	16	
Nash.....Special 8.....	16	21	16	
Nash.....Advanced 8.....			21	21
Nash.....Ambassador 8.....	22	22	22	22
Oldsmobile.....6.....	13	16 1/4	17	15
Oldsmobile.....8.....		16 1/4	19	19
Packard.....Light 8.....		19		
Packard.....Standard 8, 826, 833.....	20	20	20	20
Packard.....DeLuxe 8, 840, 845.....	26	25	20	20
Packard.....12.....		40	40	40
Peerless.....8.....	23 1/2	23 1/2		
Pierce Arrow.....8.....	26	26	26	26
Pierce Arrow.....12.....		38	38	38
Plymouth.....	9	15	13	14
Pontiac.....6.....	13	14		
Pontiac.....8.....		25	15	15
Reo.....6.....	17	20	20	19
Reo.....8-25.....		16		
Reo.....Royale.....	23	23	23	23
Rockne.....65 and 10.....		12	12	
Rockne.....75.....		14		
Studebaker.....6.....	12 1/2	12	14	15 1/2
Studebaker.....Dictator 8.....	18	14		
Studebaker.....Commandor 8.....	14	16	16	18 1/2
Studebaker.....President 8.....	21	21	18	18 1/2
Studebaker.....President 92-8.....			23	
Stutz.....LAA.....	24	24	24	
Stutz.....MA, MB, SV, DV.....	28	28	28	28
Willys Knight.....66D.....	17 1/2	17 1/2		
Willys Knight.....95.....		15 1/2		
Willys Overland.....6-90, 97 & 98D.....	14	13 1/2		
Willys Overland.....8-80 & 8-88.....	19 1/2	19 1/2		
Willys.....77.....			9	9
Willys.....99.....			12	9

— 1934 —

JANUARY

Su	Mo	Tu	We	Th	Fr	Sa
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	31			

FEBRUARY

Su	Mo	Tu	We	Th	Fr	Sa
				1	2	3
4	5	6	7	8	9	10
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18	19	20	21	22	23	24
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MARCH

Su	Mo	Tu	We	Th	Fr	Sa
				1	2	3
4	5	6	7	8	9	10
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APRIL

Su	Mo	Tu	We	Th	Fr	Sa
1	2	3	4	5	6	7
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MAY

Su	Mo	Tu	We	Th	Fr	Sa
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JUNE

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3	4	5	6	7	8	9
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JULY

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AUGUST

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SEPTEMBER

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OCTOBER

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NOVEMBER

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DECEMBER

Su	Mo	Tu	We	Th	Fr	Sa
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JULY

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AUGUST

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SEPTEMBER

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OCTOBER

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NOVEMBER

Su	Mo	Tu	We	Th	Fr	Sa
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17	18	19	20	21	22	23
24	25	26	27	28	29	30

DECEMBER

Su	Mo	Tu	We	Th	Fr	Sa
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15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31				



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